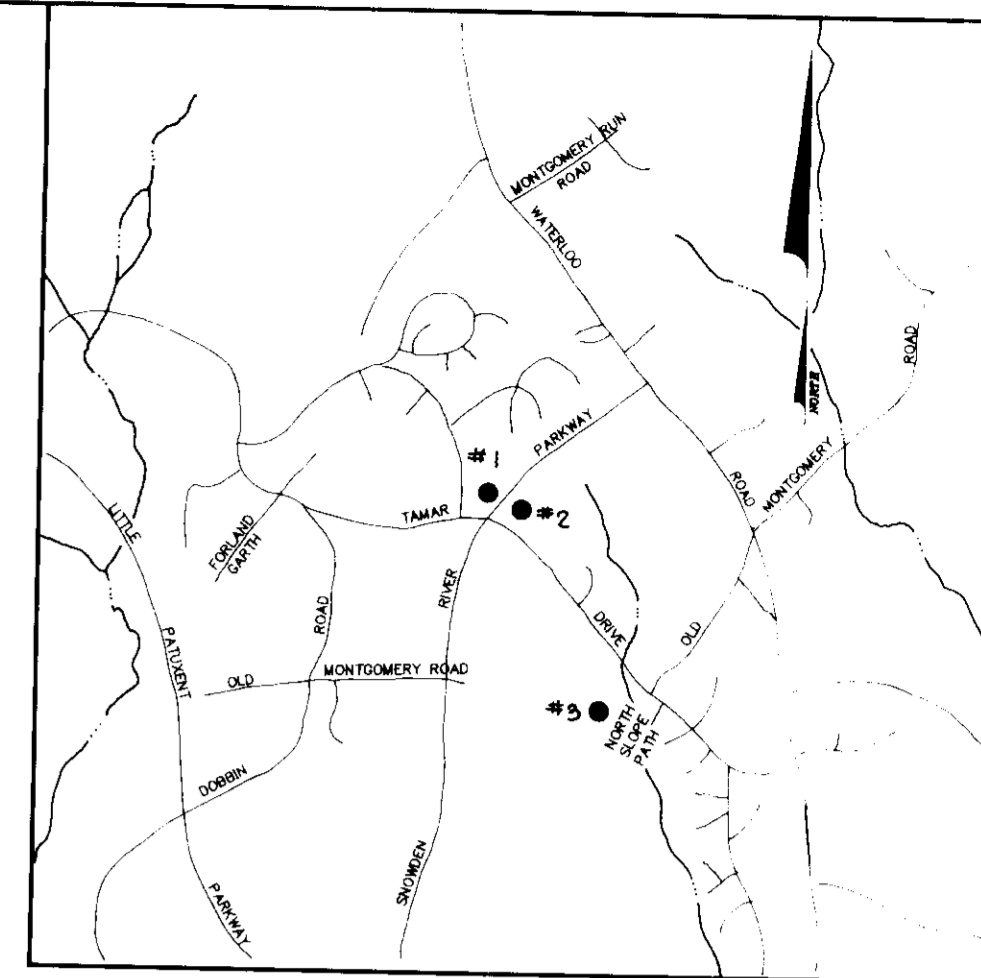


GENERAL NOTES

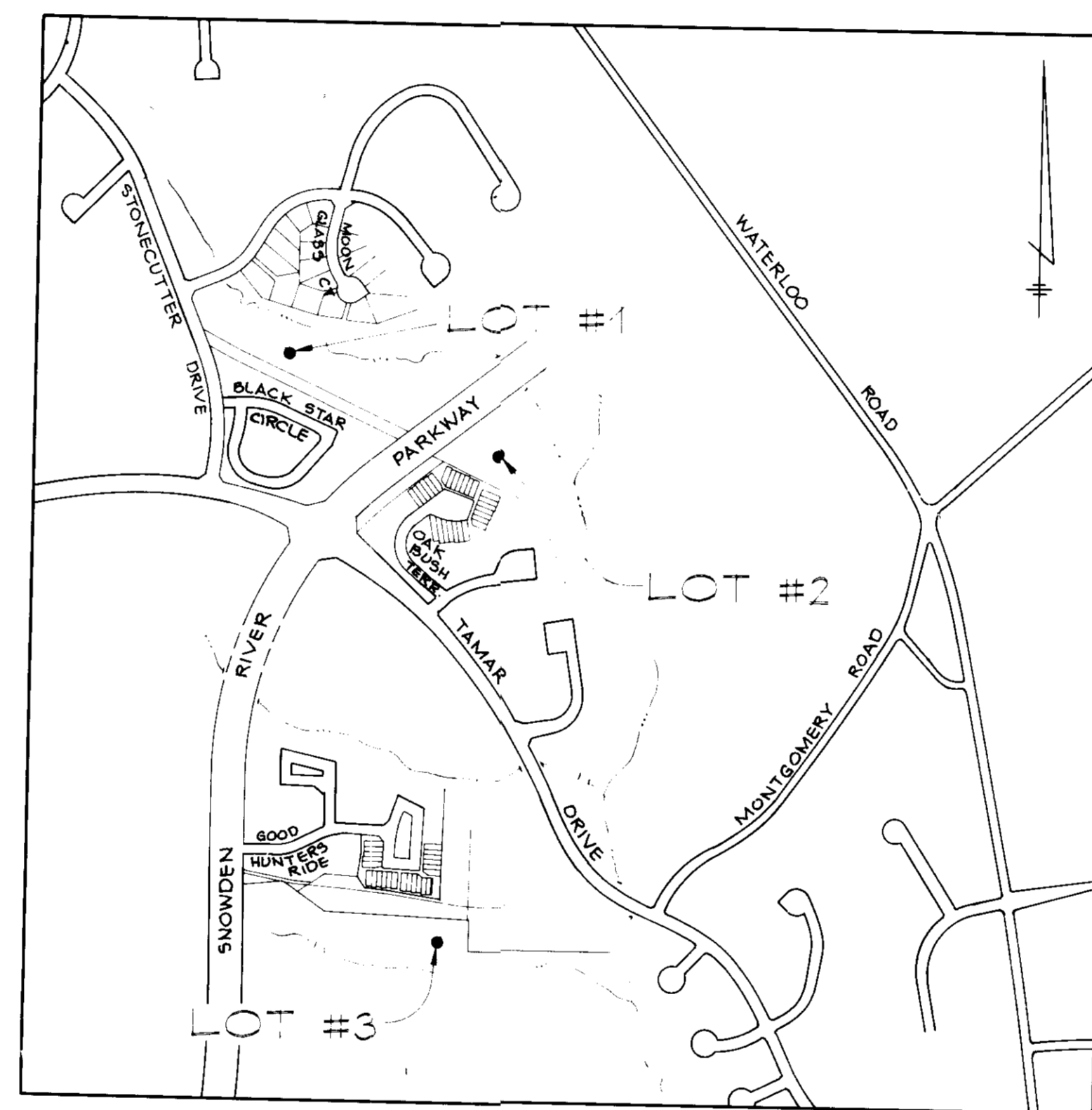
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS AMENDED IN JANUARY 1989.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO SUCH ADJUSTMENTS.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO ALSO COMPLY WITH SEDIMENT CONTROL NOTES AS DOCUMENTED ON SHEET 5.
- THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS NOT SHOWN AND IT SHALL BE THE RESPONSIBLE OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND NOTIFY THE ENGINEER.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:  
 MISS UTILITY (800) 257-7777  
 BALTIMORE GAS & ELECTRIC COMPANY (410) 234-5691  
 CEP TELEPHONE (410) 393-3648
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL OBTAIN THE NECESSARY BUILDING PERMITS FOR CONSTRUCTION.
- ALL UTILITIES ARE TO BE RETAINED UNLESS MARKED OTHERWISE AND APPURTENANCES ARE TO BE ADJUSTED TO FINISHED GRADE.
- THE CONTRACTOR SHALL REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS ARE STABILIZED. AT THAT POINT, ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND AREAS RESTORED AND STABILIZED.
- THE MEASURES REQUIRED IN THE APPROVED SEDIMENT CONTROL PLAN SHALL APPLY AS IF SHOWN ON THIS PLAN.
- THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION/INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 313-8850.
- TOPO TAKEN FROM A SURVEY BY MILLER/BOWDEN, INC. DATED 3/93.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, AS PER PLAT NO'S 8110, 8111 & 8250.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENT RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- PRIOR TO START OF ANY CONSTRUCTION CONTRACTOR SHALL STAKE-OUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL) AND DIMENSIONS.
- CONTRACTOR SHALL USE DIMENSIONS SHOWN. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY CIVIL ENGINEER.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- THE DEVELOPER MUST REQUEST THAT THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE DEPARTMENT OF INSPECTIONS AND PERMITS SHALL BE REQUIRED ON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE DEPARTMENT OF INSPECTIONS AND PERMITS IS GIVEN.
- APPROVAL SHALL BE REQUESTED ON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF CONTROLS.
- ANY DAMAGE TO COUNTY RIGHTS-OF-WAY AND PAVING OF PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND STANDARDS.
- ALL FILL SHALL BE ROLLED TO A MINIMUM DEGREE OF COMPACTION OF 95% OF THE DRY UNIT WEIGHT AS DETERMINED BY ASTM D-698.
- ALL CONCRETE FOR SITE WORK SHALL BE CLASS 2 CONCRETE AND SHALL BE IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS AS AMENDED TO DATE.
- STRUCTURES NOTED FOR REMOVAL SHALL BE REMOVED ENTIRELY AND COMPLETELY. REMOVAL OF UTILITIES OR MATERIALS THAT ARE BELOW GRADE SHALL HAVE THE SURFACE ABOVE RESTORED TO MATCH ADJACENT GRADES.
- DEMARCATE THE LIMIT OF DISTURBANCE AREA ON THE SITE WITH A CONSTRUCTION FENCE PRIOR TO ANY CLEARING AND GRADING ACTIVITY FOR THE TOTLOT CONSTRUCTION.
- STORMWATER MANAGEMENT FOR THESE SITES WAS PROVIDED UNDER ORIGINAL SUBDIVISION PLANS E: F-88-211 FOR LOT 07, AND F-88-171 FOR LOT 3 AND FUTURE OPEN SPACE.
- MAINTENANCE OF TOT LOTS TO BE THE RESPONSIBILITY OF THE OWNER: THE COLUMBIA PARK AND RECREATION ASSOCIATION.
- THE DESIGN OF TOT LOTS 1 AND 2 IS SUBJECT TO COMPLIANCE WITH FDP-197-A, PART II AND NO FDP HAS YET BEEN RECORDED FOR TOT LOT 3.

# KENDALL RIDGE TOT LOTS

## VILLAGE OF LONG REACH SECTION 3, AREAS 2 & 3 AND SECTION 4, AREA 2



VICINITY MAP  
SCALE: 1" = 2000'



LOCATION MAP  
SCALE: 1" = 600'

LEGEND

- LIMIT OF DISTURBANCE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SILT FENCE
- EARTH DIKE
- EXISTING TREES
- PROPOSED CONCRETE PAVING

APPROVED  
DATE: 8-19-93  
CM

ADDRESS CHART	
LOT No.	STREET ADDRESS
LOT 1 (TOT LOT 1)	0515 BLACK STAR CIRCLE
LOT 2 (TOT LOT 2)	0465 OAK BUSH TERRACE
LOT 3 (TOT LOT 3)	0371 SNOWDEN RIVER PARKWAY

SUBDIVISION NAME	SECT./AREA	PARCEL
COLUMBIA VILLAGE OF LONGREACH	3/2 3/3 4/2	TOT LOTS 1-3
PLAT 8380, BLOCK 1538/159	TAX/ZONE MAP 37	ELEC. DIST. 6th CENSUS TR. G.O.G.G. 02.
WATER CODE N/A	SEWER CODE N/A	

HOWARD COUNTY MONUMENT #2043005 LOCATED 212 FT. NORTHEAST OF D.G.F.E TOWER #12 AND 165 1/2 SOUTHEAST OF D.G.F.E TOWER #12 E N 501949.742 E 854449.488 ELEV. 498.053

HOWARD COUNTY MONUMENT #2542001 LOCATED 100 FT. SOUTHWEST OF D.G.F.E TOWERS #10 AND IGE. 1060 FT. SOUTHWEST OF DOBBIN ROAD N 429533.233 E 852111.258 ELEV. 426.071

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*John W. Hines* 9/3/93  
U.S. SOIL CONSERVATION SERVICE DATE

BY THE ENGINEER:  
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 COUNTY SOIL CONSERVATION DISTRICT.

*John R. Heinrichs* 9/14/93  
ENGINEER: JOHN R. HEINRICHS DATE

BY THE DEVELOPER:  
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 MARYLAND 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.

*Denis Ellis* 4-22-93  
DEVELOPER: DENIS ELLIS DATE  
COLUMBIA PARK AND RECREATION ASSOC.

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

*Steph P. Kelly* 9/3/93  
DIRECTOR, BUREAU OF ENGINEERING DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*John P. Palm* 9-21-93  
COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James M. Linn* 9-15-93  
DIRECTOR DATE

*Paul D. Jesson* 9/15/93  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*James M. Linn* 9-23-93  
PLANNING DIRECTOR DATE

*Gina Swimmari* 9/23/93  
CHIEF, DIVISION OF LAND USE, PLANNING AND RESEARCH DATE

Date	No.	Revision Description

OWNER/DEVELOPER

**THE COLUMBIA PARK & RECREATION ASSOCIATION**  
10221 WINCOPIN CIRCLE, SUITE 100  
COLUMBIA, MARYLAND 21044-3410  
(410) 312-0925

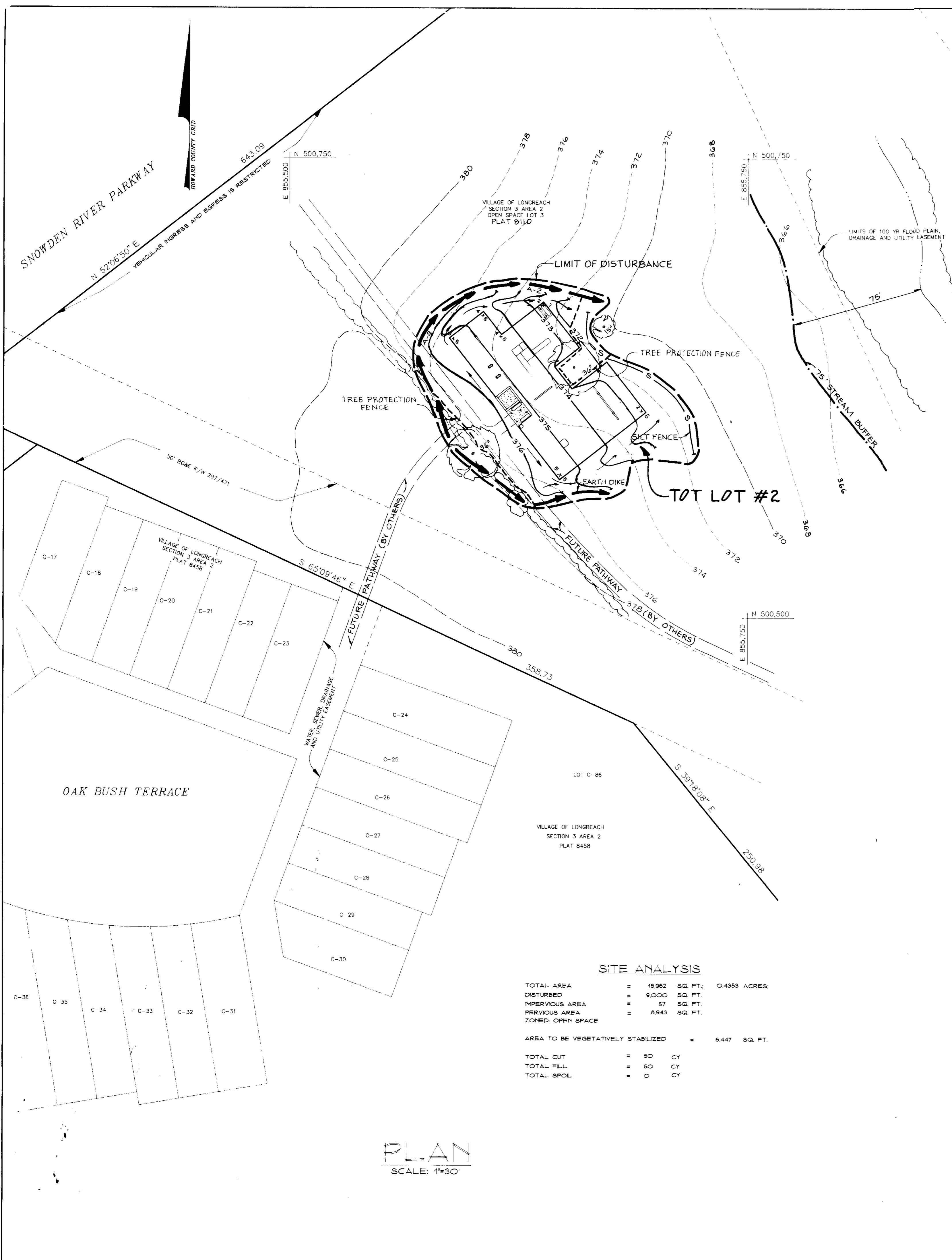
**PHOENIX ENGINEERING, INC.**  
CONSULTING ENGINEERS  
817 MAIDEN CHOICE LANE, SUITE 300  
BALTIMORE, MARYLAND 21228  
(410) 247-8623 FAX 247-8397

AREA: VILLAGE OF LONGREACH SECTION 3 AREA 2 05 LOT 05 SECTION 3, AREA 3 05 LOT 07 SECTION 4 AREA 2 FUTURE OPEN SPACE 05 ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE: TOT LOTS 1, 2 & 3  
SITE DEVELOPMENT PLAN  
SEDIMENT CONTROL PLAN

Des By: R.J.W. Scale: AS SHOWN Proj No: 93-000 UNCOVERING  
Dwn By: A.J.R. Date: JULY 7, 1993 DRAWING NO.  
CHK By: J.R.H. SDP-93-107 1 OF 5





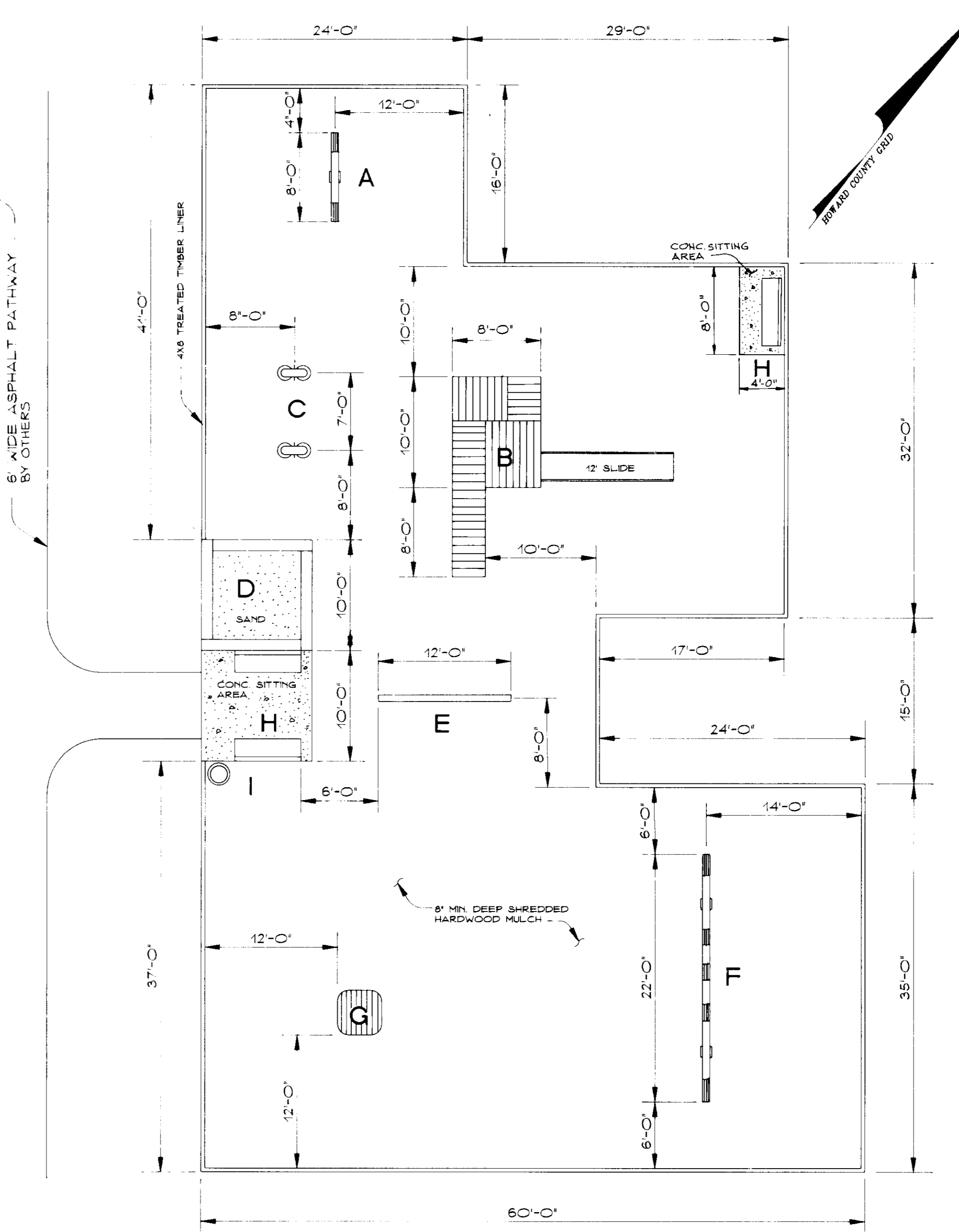
**SITE ANALYSIS**

TOTAL AREA	=	16,962	SQ. FT.	0.4353	ACRES
DISTURBED	=	9,000	SQ. FT.		
IMPERVIOUS AREA	=	87	SQ. FT.		
PERVIOUS AREA	=	6,943	SQ. FT.		
ZONED OPEN SPACE	=				
AREA TO BE VEGETATIVELY STABILIZED	=	6,447	SQ. FT.		
TOTAL CUT	=	50	CY		
TOTAL FILL	=	50	CY		
TOTAL SPOIL	=	0	CY		

PLAN  
 SCALE: 1"=30'

**PROPOSED EQUIPMENT**

- A - 1' SWING WITH 2 SWING SEATS
- B - FORT R-3 WITH 12' SLIDE
- C - (2) SPRING ANIMALS
- D - SANDBOX
- E - BALANCE BEAM
- F - DOUBLE 1' SWING WITH 5 SWING SEATS
- G - SPRING PAD
- H - (3) PERMANENT BENCHES
- I - PERMANENT TRASH CONTAINER



PLAN  
 SCALE: 1/8"=1'-0"  
 APPROVED  
 DATE: 8.19.93

4/16/93  
 Date  
 JOHN R. HEINRICHS  
 Professional Engr. No. 14920

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*John R. Heinrichs* 9/1/93  
 U.S. SOIL CONSERVATION SERVICE DATE

BY THE ENGINEER:  
 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 COUNTY SOIL CONSERVATION DISTRICT.

*John R. Heinrichs* 4/16/93  
 ENGINEER: JOHN R. HEINRICHS DATE

BY THE DEVELOPER:  
 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 MARYLAND 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.

*Denis Ellis* 4.22.92  
 DEVELOPER: DENIS ELLIS DATE  
 COLUMBIA PARK & RECREATION ASSOCIATION

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

*John R. Heinrichs* 9/1/93  
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

*Joyce W. Boyd* 9-21-93  
 COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James G. Johnson* 9.15.93  
 CHIEF, BUREAU OF ENGINEERING M.K. 00 9/15/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*James R. Smith* 9/23/93  
 PLANNING DIRECTOR DATE

*Gina Swinny* 9/22/93  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Date	No.	Revision Description

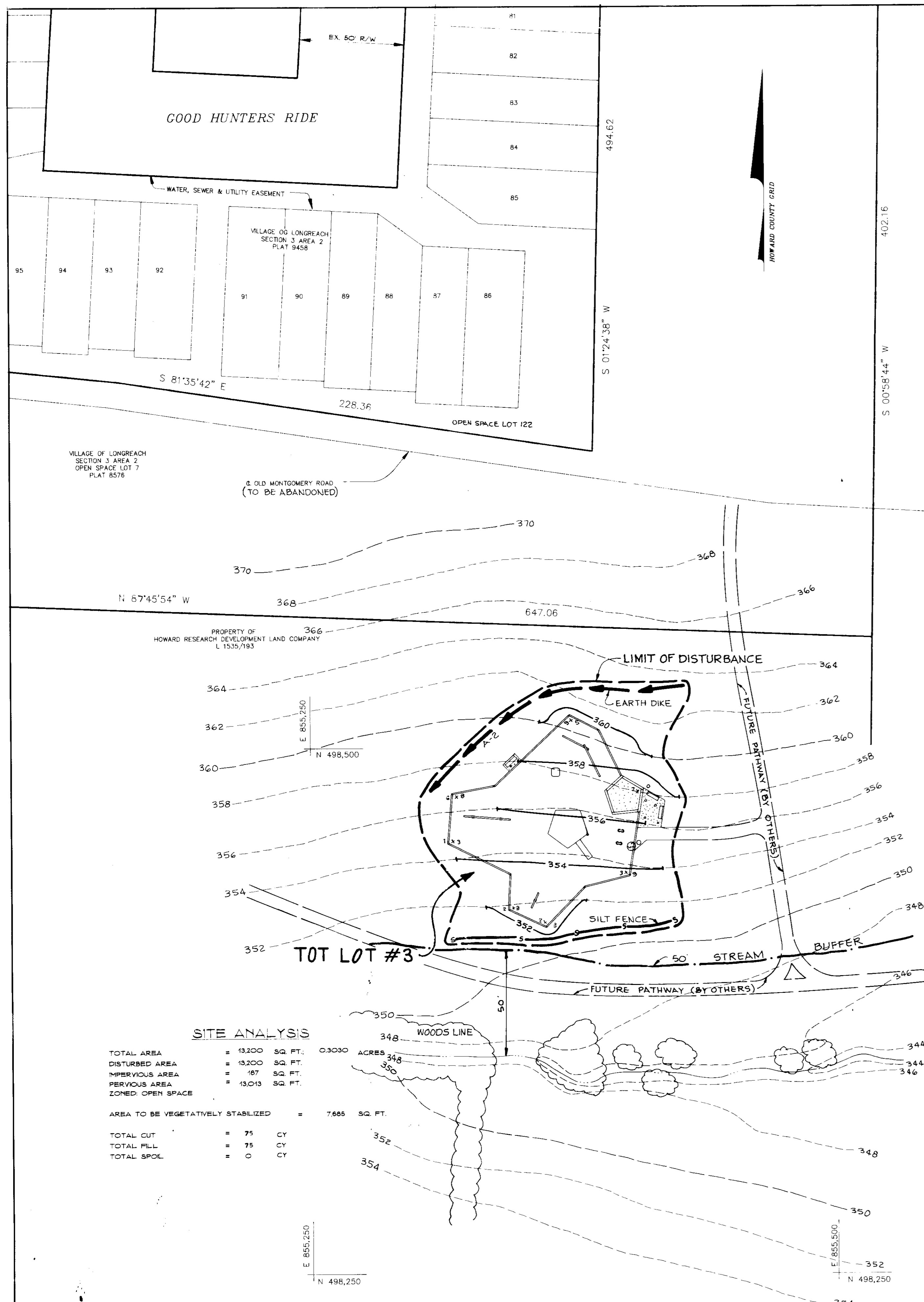
OWNER/DEVELOPER  
**THE COLUMBIA PARK & RECREATION ASSOCIATION**  
 10221 WINCOPIN CIRCLE, SUITE 100  
 COLUMBIA, MARYLAND 21044-3410  
 (410) 312-6325

**PHOENIX ENGINEERING, INC.**  
 CONSULTING ENGINEERS  
 417 MAIDEN CHURCH LANE, SUITE 300  
 BALTIMORE, MARYLAND 21208  
 (410) 247-0833 FAX 247-9287

AREA  
 VILLAGE OF LONGREACH SECTION 3 AREA 2  
 OPEN SPACE LOT 3  
 6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE  
**TOT LOT #2**  
**SITE DEVELOPMENT PLAN**  
**SEDIMENT CONTROL PLAN**

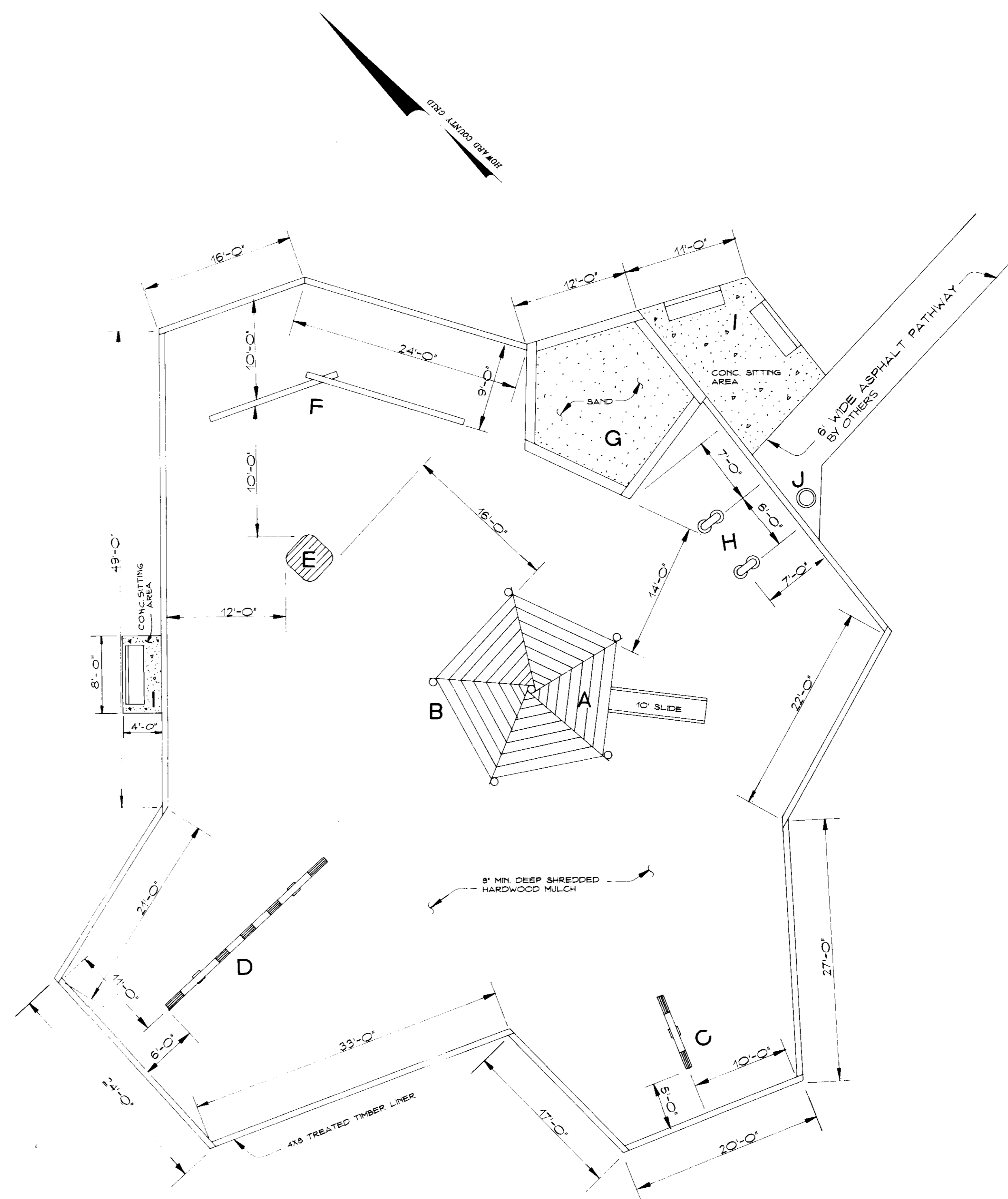
Des By	R.J.W.	Scale	AS SHOWN	Proj No	93-000 LRT072.000
Dim By	A.J.R.	Date	JULY 7, 1993	DRAWING NO	
Chk By	J.R.H.		SOP-93-107		3 OF 5



**SITE ANALYSIS**

TOTAL AREA	= 13,200 SQ. FT.	0.3030 ACRES
DISTURBED AREA	= 13,200 SQ. FT.	
IMPERVIOUS AREA	= 187 SQ. FT.	
PERVIOUS AREA	= 13,013 SQ. FT.	
ZONED OPEN SPACE		
AREA TO BE VEGETATIVELY STABILIZED	= 7,665 SQ. FT.	
TOTAL CUT	= 75 CY	
TOTAL FILL	= 75 CY	
TOTAL SPCL	= 0 CY	

**PLAN**  
SCALE: 1"=30'



- PROPOSED EQUIPMENT**
- A - SPIRAL FORT UNIT L-5 WITH 10' SLIDE
  - B - FIREMEN'S POLE
  - C - T' SWING WITH 2 SWING SEATS
  - D - DOUBLE T' SWING WITH 5 SWING SEATS
  - E - SPRING PAD
  - F - BALANCE BEAM
  - G - SANDBOX
  - H - (2) SPRING ANIMALS
  - I - (3) PERMANENT BENCHES
  - J - PERMANENT TRASH CONTAINER

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*J.G. Warkentin* 9/3/93  
U.S. SOIL CONSERVATION SERVICE DATE

BY THE ENGINEER:  
"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 COUNTY SOIL CONSERVATION DISTRICT."

*John R. Heinrichs* 9/16/93  
ENGINEER: JOHN R. HEINRICHS DATE

BY THE DEVELOPER:  
"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 MARYLAND 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."

*Denis Ellis* 4/22/93  
DEVELOPER: DENIS ELLIS DATE  
COLUMBIA PARK & RECREATION ASSOCIATION

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

*Gregory S. Kelly* 9/3/93  
OWNER: G.S.C. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*Joseph R. Boyd* 9-21-93  
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James M. Lee* 9/15/93  
SUPERVISOR DATE  
*Charles D. Jordan* 9/15/93  
CHIEF, BUREAU OF ENGINEERING, M.K. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*James H. Satter* 9/23/93  
PLANNING DIRECTOR DATE

*Gina Wommanyi* 9/22/93  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Date	No.	Revision Description

OWNER/DEVELOPER  
**THE COLUMBIA PARK & RECREATION ASSOCIATION**  
10221 WINCOPIN CIRCLE, SUITE 100  
COLUMBIA, MARYLAND 21044-3410  
(410) 312-6325

**PHOENIX ENGINEERING, INC.**  
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BALTIMORE, MARYLAND 21228  
(410) 247-8653 FAX 247-8397

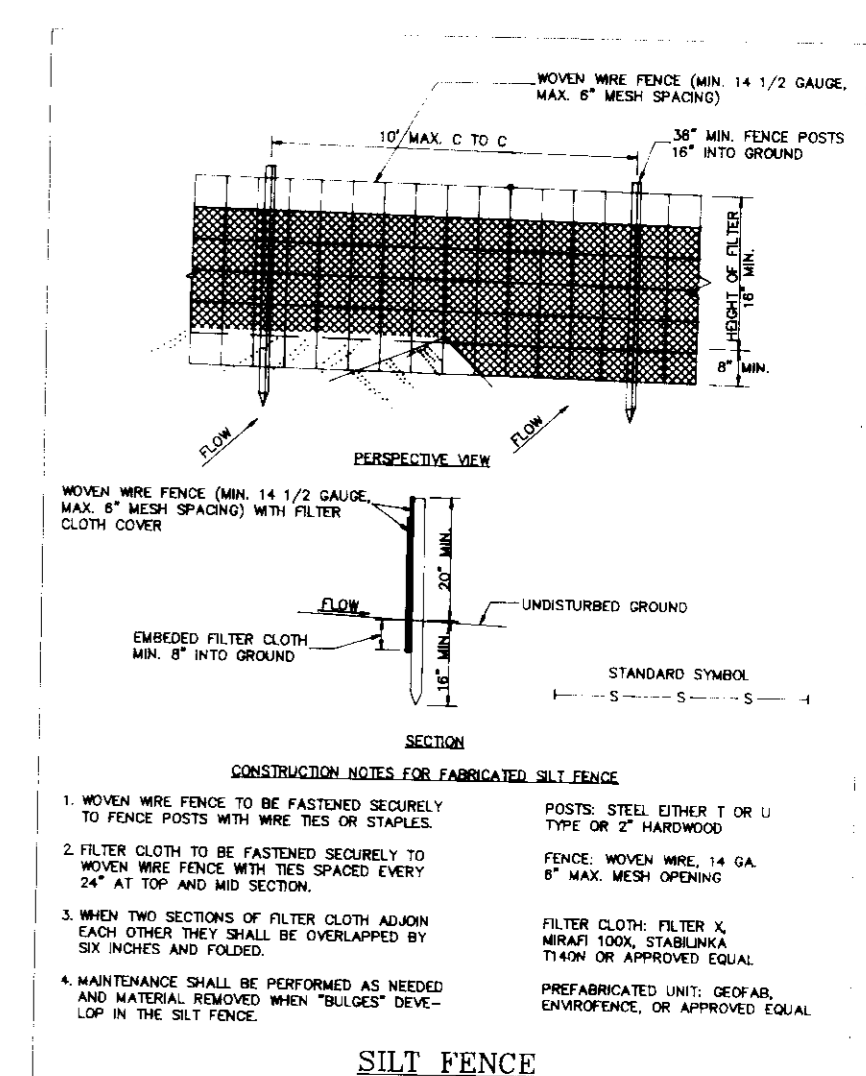
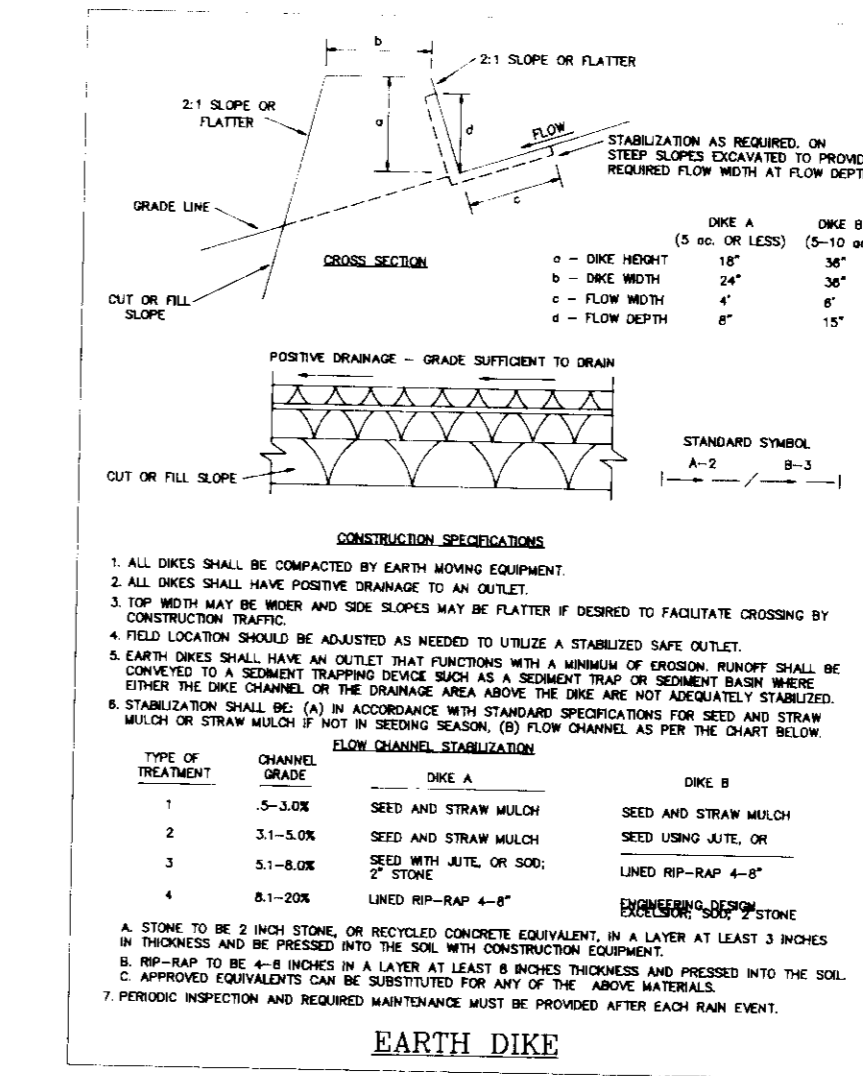
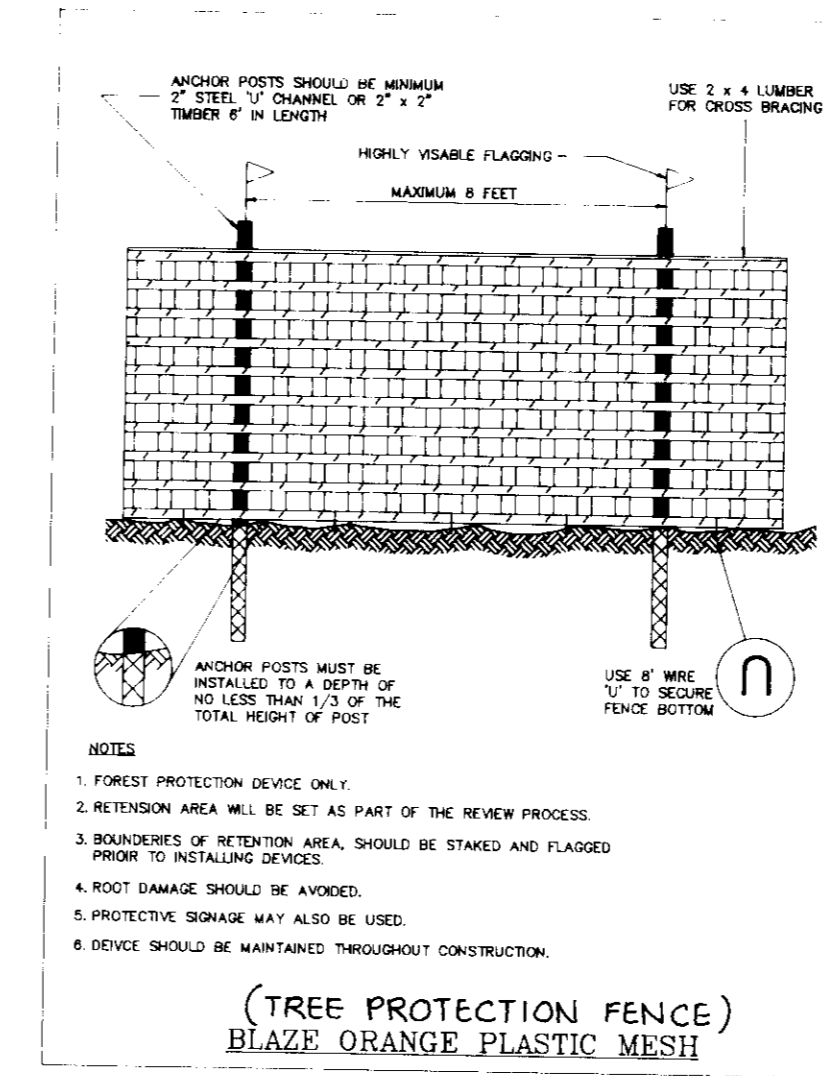
AREA: VILLAGE OF LONGREACH SECTION 4 AREA 2  
FUTURE OPEN SPACE LOT  
8th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE: **TOT LOT #3  
SITE DEVELOPMENT PLAN  
SEDIMENT CONTROL PLAN**

Des. By: R.J.W. Scale: AS SHOWN Proj. No. 93-000 (LOT3)DWG  
Dwn. By: A.J.R. Date: JULY 7, 1993 DRAWING NO.  
Chk. By: J.R.H. SDP-93-107 4 OF 5

4/16/93  
Date  
*John R. Heinrichs*  
JOHN R. HEINRICHS  
Professional Engr. No. 14920

APPROVED  
8-19-93  
*con*



(TREE PROTECTION FENCE)  
BLAZE ORANGE PLASTIC MESH

EARTH DIKE

SILT FENCE

- SEPTIMENT CONTROL NOTES**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (13.11.02)
  - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN ACCORDANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION.
  - FOLLOWING METAL SOIL DISTURBANCE OR RESTORATION PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FOR ALL PERMANENT SEDIMENT CONTROL STRUCTURES, DRAIN PERIMETER SLOPES AND ALL SLOPES GREATER THAN 2:1 BY DATE AS TO BE DETERMINED BY THE HOWARD COUNTY INSPECTOR.
  - ALL SEDIMENT TRAPPERS MUST BE MAINTAINED AND ACCORDANCE WITH SECTION 4 CHAPTER 2 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
  - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE METAL SOIL DISTURBANCE AND RESTORATION PRACTICES FOR SOIL (MSD) BY SOI (MSD) 44. TEMPORARY STABILIZATION STRUCTURES (MSD 53) TEMPORARY STABILIZATION WITH MULCH 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 HAVE BEEN OBTAINED FROM THE HOWARD COUNTY INSPECTOR.
  - ANY SEDIMENT CONTROL PRACTICE WHICH IS OBTAINED 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 DEP. SEDIMENT CONTROL INSPECTOR.
  - ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE PRESENTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH OTHER BATH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

- PERMANENT SEEDING NOTES**
- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DIGGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** IN LBS OF SOIL TEST RECOMMENDATIONS USE ONE OF THE FOLLOWING SCHEDULES.
- PREFERRED -** APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ FT) AND 800 LBS PER ACRE 30-0-0 FERTILIZER (24 LBS/1000 SQ FT) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (8 LBS/1000 SQ FT).
  - ACCEPTABLE -** APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ FT) AND 800 LBS PER ACRE 30-0-0 FERTILIZER (24 LBS/1000 SQ FT) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDS:** FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 31, SEED WITH 80 LBS PER ACRE (8 LBS/1000 SQ FT) OF BRITANNIA 311 PERCULE FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 80 LBS PER ACRE (8 LBS/1000 SQ FT) OF TALL FESCUE PER ACRE (8 LBS/1000 SQ FT) OR VERDE GRASS PER ACRE (8 LBS/1000 SQ FT). PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OPTION II. LBS SOI OPTION II SEED WITH 80 LBS/ACRE (8 LBS/1000 SQ FT) OF TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW MULCH.
- MULCHES:** APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 20 LBS/1000 SQ FT) OF UNMILLED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH HARDLY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 25 GALLONS PER ACRE (25 GALLONS/1000 SQ FT) OF UNMILLED ANNUAL OR PLANT AREAS OR SLOPES 6 FT OR HIGHER USE 54 GALLONS PER ACRE (54 GALLONS/1000 SQ FT) FOR ANCHORS.
- MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND REMEDIATIONS.

- TEMPORARY SEEDING NOTES**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DIGGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** APPLY 800 LBS PER ACRE 10-0-0 FERTILIZER (8 LBS/1000 SQ FT).
- SEEDS:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 1 1/2 TONS PER ACRE (15 LBS/1000 SQ FT) OF BRITANNIA 311 PERCULE FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 3 LBS PER ACRE (3 LBS/1000 SQ FT) OF TALL FESCUE PER ACRE (3 LBS/1000 SQ FT) OR VERDE GRASS PER ACRE (3 LBS/1000 SQ FT). PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OPTION II. LBS SOI OPTION II SEED WITH 80 LBS/ACRE (8 LBS/1000 SQ FT) OF TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW MULCH.
- MULCHES:** APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 20 LBS/1000 SQ FT) OF UNMILLED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH HARDLY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 25 GALLONS PER ACRE (25 GALLONS/1000 SQ FT) OF UNMILLED ANNUAL OR PLANT AREAS OR SLOPES 6 FT OR HIGHER USE 54 GALLONS PER ACRE (54 GALLONS/1000 SQ FT) FOR ANCHORS.
- NOTES:** REFER TO THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SEQUENCE OF CONSTRUCTION**

DAY	DESCRIPTION
DAY 1	OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF LICENSES AND PERMITS.
DAY 2-3	NOTIFY THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK.
DAY 4-5	CLEAR AND GRUB AREA FOR AND INSTALL SEDIMENT CONTROL MEASURES AND TREE PROTECTION FENCING.
DAY 6-7	CLEAR AND GRUB REMAINDER OF SITE AS SHOWN ON PLANS.
DAY 7-8	GRADE SITE MAINTAINING POSITIVE DRAINAGE AT ALL TIMES.
DAY 8-10	STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
DAY 10-20	COMPLETE ALL CONSTRUCTION AS SHOWN ON PLANS AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
DAY 20-22	WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES.

**APPROVED**  
DATE: 8-19-93  
J.R.H.

4/16/93  
Date  
JOHN R. HEINRICHS  
Professional Engr. No. 14920

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS

J.G. Confield/66 9/3/93  
U.S. SOIL CONSERVATION SERVICE DATE

BY THE ENGINEER:  
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 COUNTY SOIL CONSERVATION DISTRICT.

John Heintz 4/16/93  
ENGINEER: JOHN R. HEINRICHS DATE

BY THE DEVELOPER:  
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 MARYLAND 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.

D.E. 4-14-93  
DEVELOPER: DENIS ELLIS DATE  
COLUMBIA PARK & RECREATION ASSOCIATION

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

9/3/92  
HOWARD S.C.D. DATE

9-21-93  
COUNTY HEALTH ORDER #77 DATE

9/15/93  
DIRECTOR DATE

9/15/93  
CHIEF, BUREAU OF ENGINEERING, P.K. COLEMAN DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

9/23/93  
PLANNING DIRECTOR DATE

9/22/93  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

OWNER/DEVELOPER

THE COLUMBIA PARK & RECREATION ASSOCIATION  
10221 WINCOPIN CIRCLE, SUITE 100  
COLUMBIA, MARYLAND 21044-3410  
(410) 312-6325

PHOENIX ENGINEERING, INC.  
CONSULTING ENGINEERS  
817 MAIDEN CREEK LANE, SUITE 300  
BALTIMORE, MARYLAND 21208  
(410) 247-8823 FAX 247-8387

AREA  
VILLAGE OF LONGBRANCH SECTION 3 AREA 2 O.S. LOT 5  
SECTION 3 AREA 3 O.S. LOT 27  
SECTION 3 AREA 4 FUTURE OPEN SPACE  
818 SECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE  
SEDIMENT CONTROL NOTES AND DETAILS

Des By R.L.W. Scale AS SHOWN Proj No 93-070 LRD:DWG  
Dm By A.J.R. Date JULY 7, 1993 DRAWING NO  
Chk By J.R.H. SEP-93-107 5 OF 5