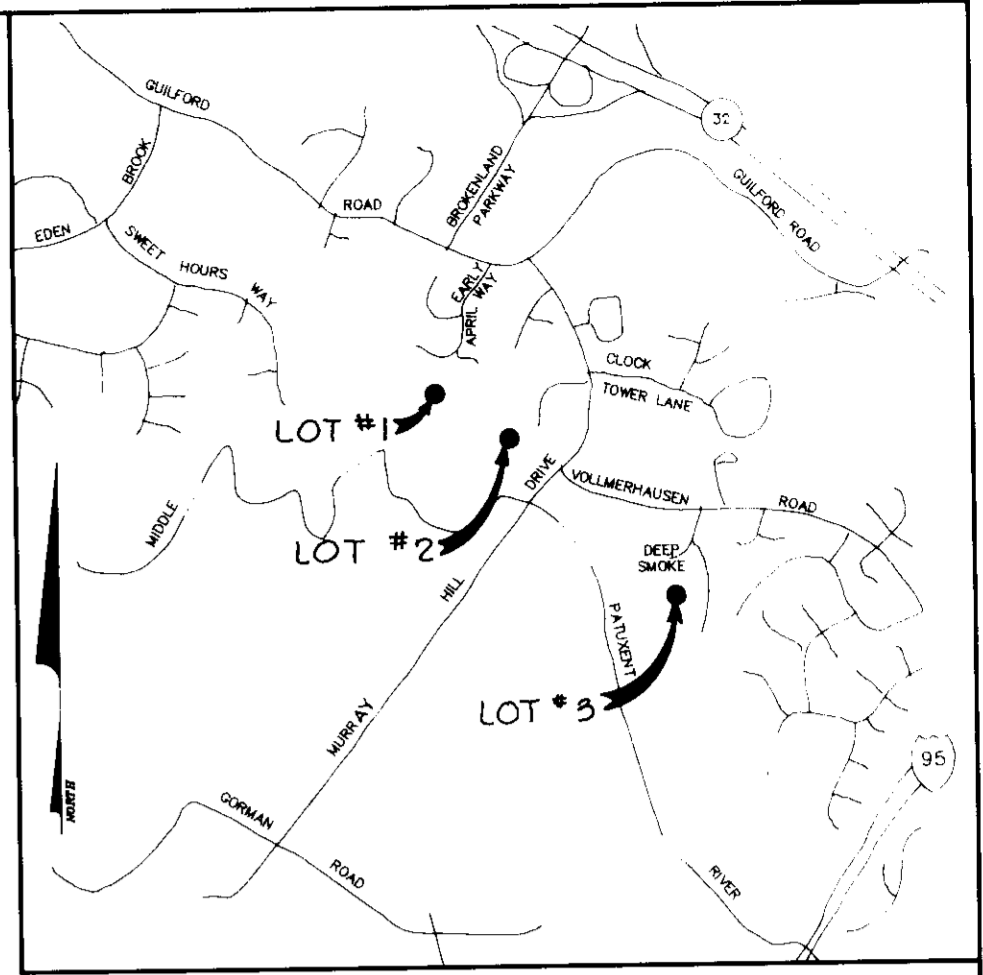


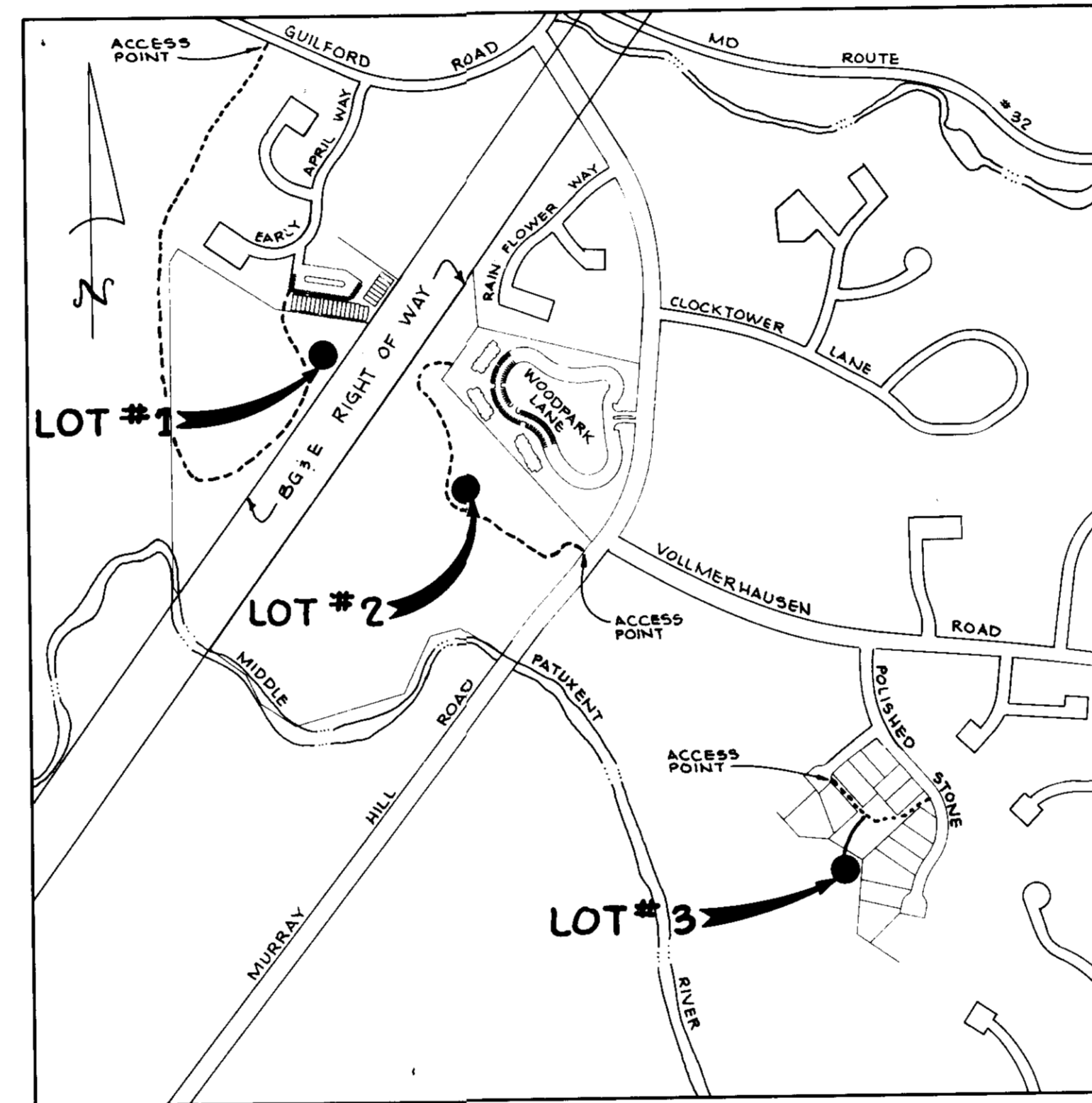
GENERAL NOTES

- 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 RESPONSIBILITY 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) 393-3646
- 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 313-3380.
- 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 4808, 4809 & 4810.
- 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 MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, 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 CONTROLS. BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCES 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.
- DEMARCATHE THE LIMIT OF DISTURBANCE AREA ON THE SITE WITH A CONSTRUCTION FENCE PRIOR TO ANY CLEARING AND GRADING ACTIVITY FOR THE TOT LOT CONSTRUCTION.
- STORMWATER MANAGEMENT FOR THESE SITES WAS PROVIDED UNDER ORIGINAL SUBDIVISION PLANS E-180-47 LOT 151, 152 & 153.
- MAINTENANCE OF TOT LOTS TO BE THE RESPONSIBILITY OF THE OWNER, THE COLUMBIA PARK AND RECREATION ASSOCIATION.
- ALL TREES 12" IN DIAMETER OR GREATER SHALL REMAIN PROTECTED AND UNDAMAGED AT ALL TIMES.
- THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR CONSTRUCTION.
- FOR THE VILLAGE OF KINGS CONTRIVANCE OPEN SPACE MASTER PLAN FOR THE HUNTINGTON NEIGHBORHOOD SEE SDP 92-51.

HUNTINGTON TOT LOTS



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
- PROPOSED TREES

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. H. Winkler 11/1/93
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 4/27/93
ENGINEER: JOHN R. HEINRICHS DATE

BY THE DEVELOPER:
I 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 COUNTY SOIL CONSERVATION DISTRICT.

Denise Ellis 4-29-93
DEVELOPER: DENISE ELLIS DATE
COLUMBIA PARK AND RECREATION ASSOC.

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

John P. Robinson 11/1/93
HOWARD S.C.D. DATE

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

Norman Zogler 11-12-93
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 P. Law 11/8/93
DIRECTOR DATE

APPROVED FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Joseph S. Smith 11/19/93
PLANNING DIRECTOR DATE

Gina Strumianic 11/19/93
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
817 WOODBURY DRIVE, SUITE 300
BALTIMORE, MARYLAND 21208
(410) 247-8833 FAX 247-8387

AREA

VILLAGE OF KINGS CONTRIVANCE
SECTION 3, AREA 2
OPEN SPACE LOTS 151, 152 & 153
6TH 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 93-090 KCD/ER/DW
 Dm By A.J.R. Date APRIL 1993 DRAWING NO
 Ck By J.R.H. SDP-93-123 1 OF 5

4/27/93

ADDRESS CHART	
LOT No.	STREET ADDRESS
TOT LOT #1 (LOT 151)	9095 MOVING WATER LANE
TOT LOT #2 (LOT 152)	7685 WOODPARK LANE
TOT LOT #3 (LOT 153)	9711 DEEP SMOKE

PLAT	BLOCK	ZONE	TAX/ZONE MAP	SECT./AREA	PARCEL
4808	14 E 21	NT	42	3/2	LOTS 151, 152 & 153
4809	14 E 21	NT	42	6th	CENSUS TR. 6068.01
4810	14 E 21	NT	42	6th	CENSUS TR. 6068.01

WATER CODE N/A SEWER CODE N/A

APPROVED

8-5-93

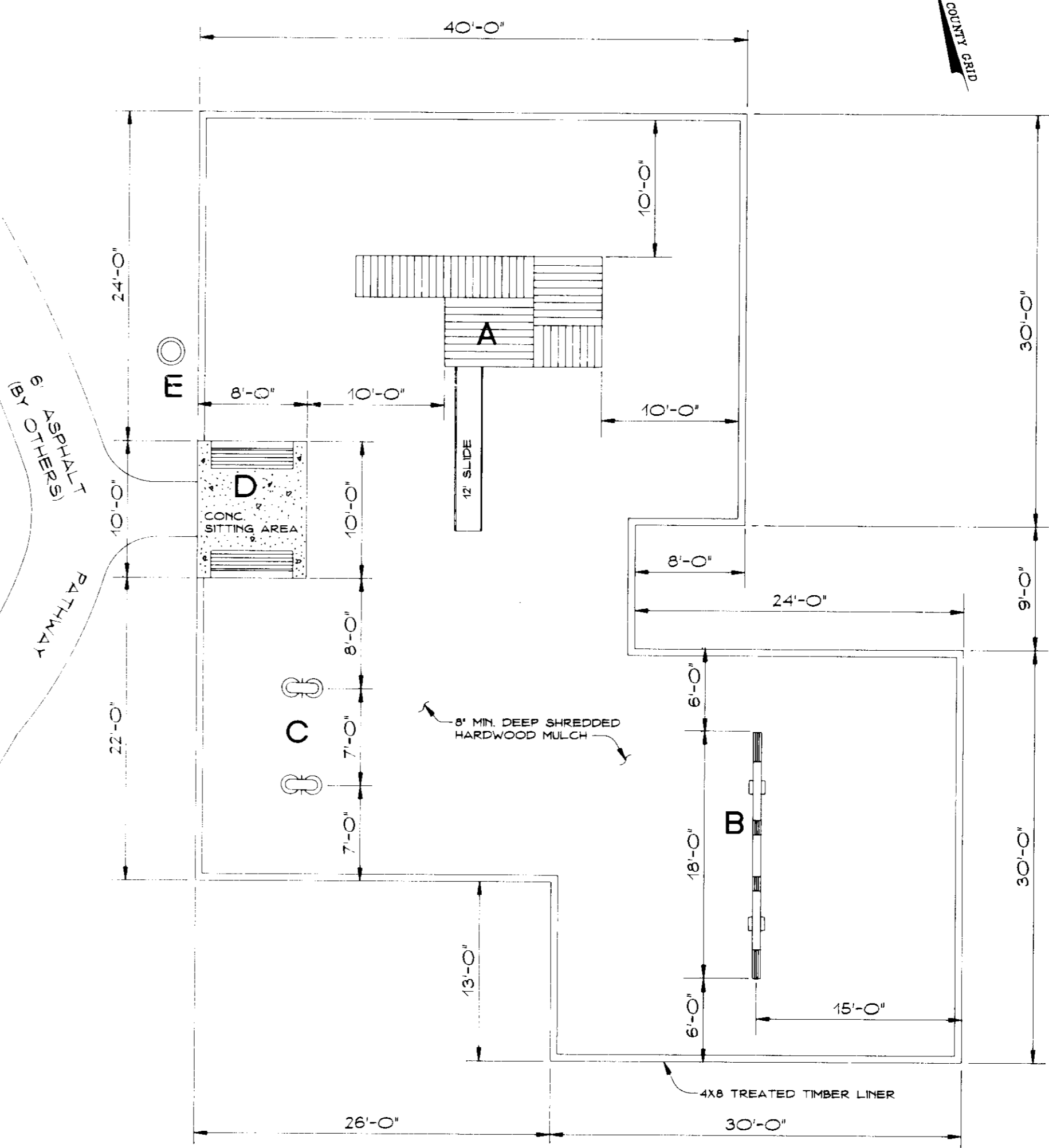
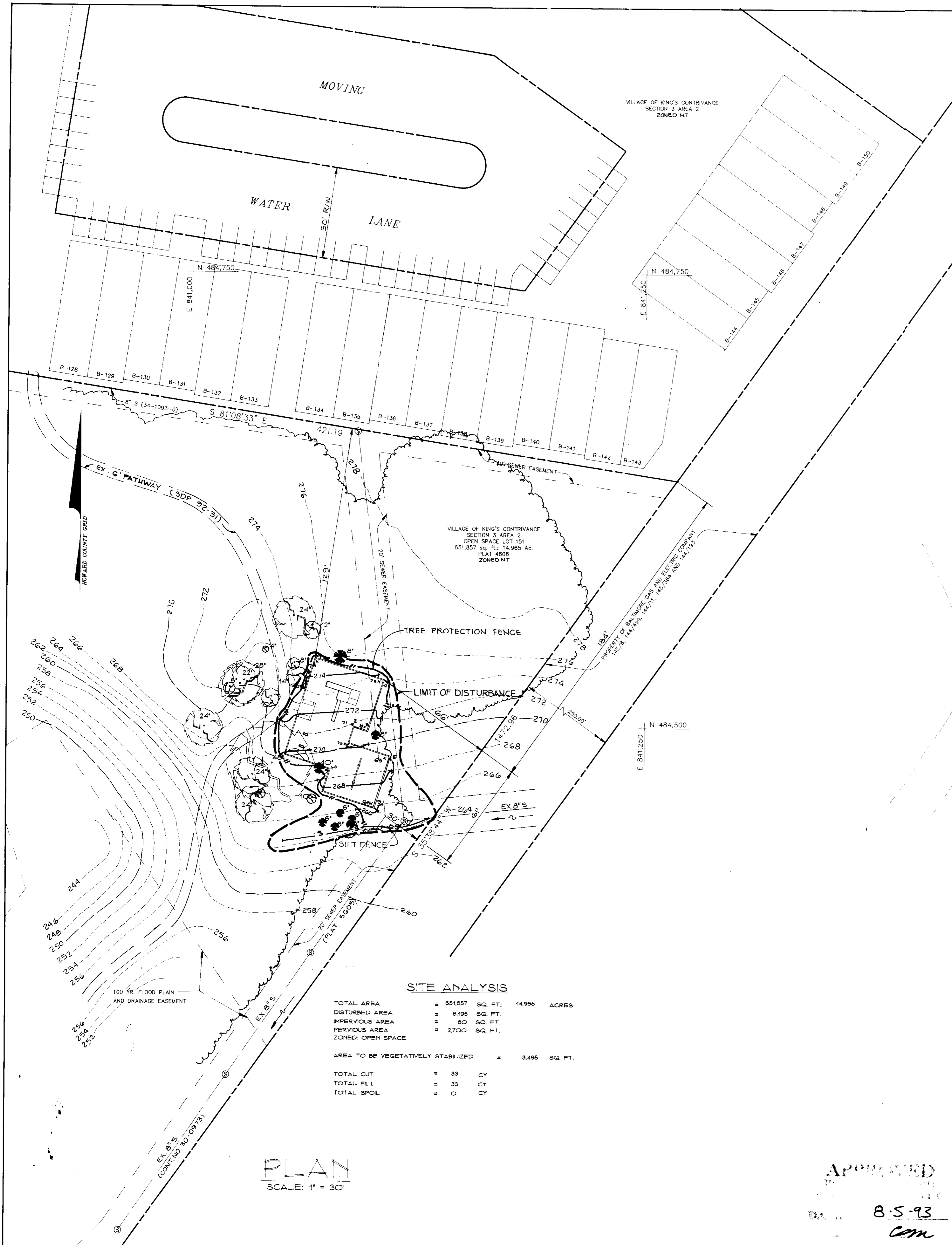
J.R.H.

HOWARD COUNTY BM #2241007 ELEV 258.979
CONCRETE MONUMENT 0.2' BELOW SURFACE, 16.46' SOUTHWEST OF AN X CUT IN CORNER OF THE GUILFORD ROAD BRIDGE NEAR BERGER ROAD.

HOWARD COUNTY BM #2241008-R ELEV 308.083
REBAR 0.3' BELOW SURFACE ON SOUTH SIDE OF GUILFORD RD. 72.77' EAST OF G&E POLE #465847.

PROPOSED EQUIPMENT

- A - FORT R-3 WITH 12' SLIDE
- B - DOUBLE 'T' SWING
- C - (2) SPRING ANIMALS
- D - (2) PERMANENT BENCHES
- E - PERMANENT TRASH CONTAINER



SITE ANALYSIS

TOTAL AREA	= 65,857 SQ. FT.	14.966 ACRES
DISTURBED AREA	= 6,195 SQ. FT.	
IMPERVIOUS AREA	= 80 SQ. FT.	
PERVIOUS AREA	= 2,700 SQ. FT.	
ZONED OPEN SPACE		
AREA TO BE VEGETATIVELY STABILIZED	= 3,495 SQ. FT.	
TOTAL CUT	= 33 CY	
TOTAL FILL	= 33 CY	
TOTAL SPOL	= 0 CY	

PLAN
SCALE: 1" = 30'

PLAN
SCALE: 1/8"=1'-0"

APPROVED
8-5-93
cm

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
J. H. Waldie 11/1/93
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 4/27/93
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.
Denise Ellis 4-29-93
DEVELOPER: DENISE ELLIS DATE
COLUMBIA PARK AND RECREATION ASSOCIATION

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Waldie 11/1/93
HOWARD S.C.D. DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Josephine B. Jelen 11-12-93
COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
James G. ... 11/8/93
DIRECTOR DATE
... .. 11/9/93
CHIEF, BUREAU OF ENGINEERING M.K. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
... .. 11/19/93
PLANNING DIRECTOR DATE

Gara Summary 11/19/93
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
817 WALKER CIRCLE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-8387

AREA
VILLAGE OF KING'S CONTRIVANCE SECTION 3 AREA 2
P/O OPEN SPACE LOT 151
918 ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
TOT LOT #1
SITE DEVELOPMENT PLAN
SEDIMENT CONTROL PLAN

Des By R.J.W. Scale 1" = 30' Proj No 93-000 KETD1.DWG
Dm By A.J.R. Date APRIL, 1993
Chk By J.R.H. SDP-93-123 2 OF 5

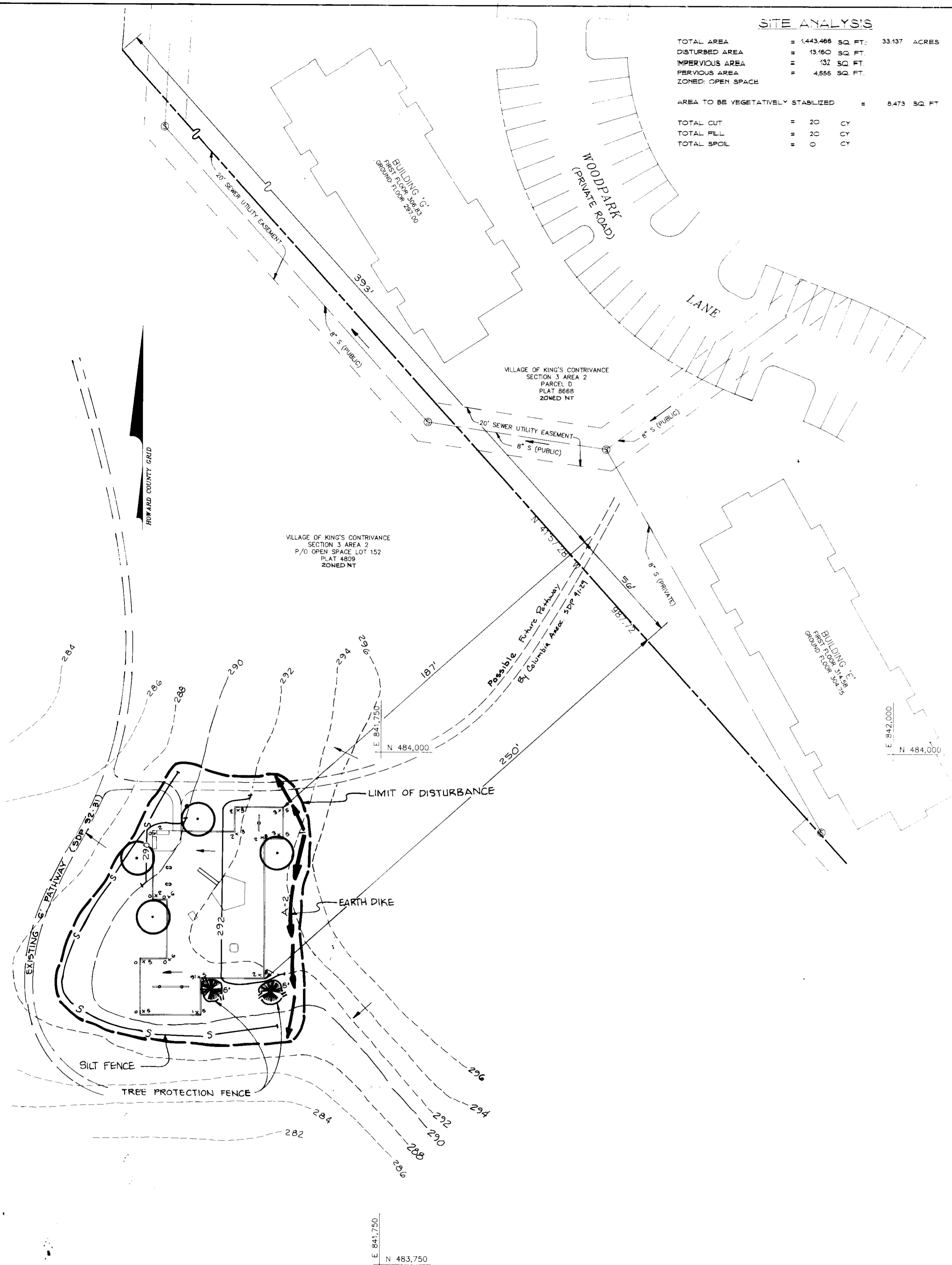
4/27/93
Date
John R. Heinrichs
Professional Engr. No. 14920

SITE ANALYSIS

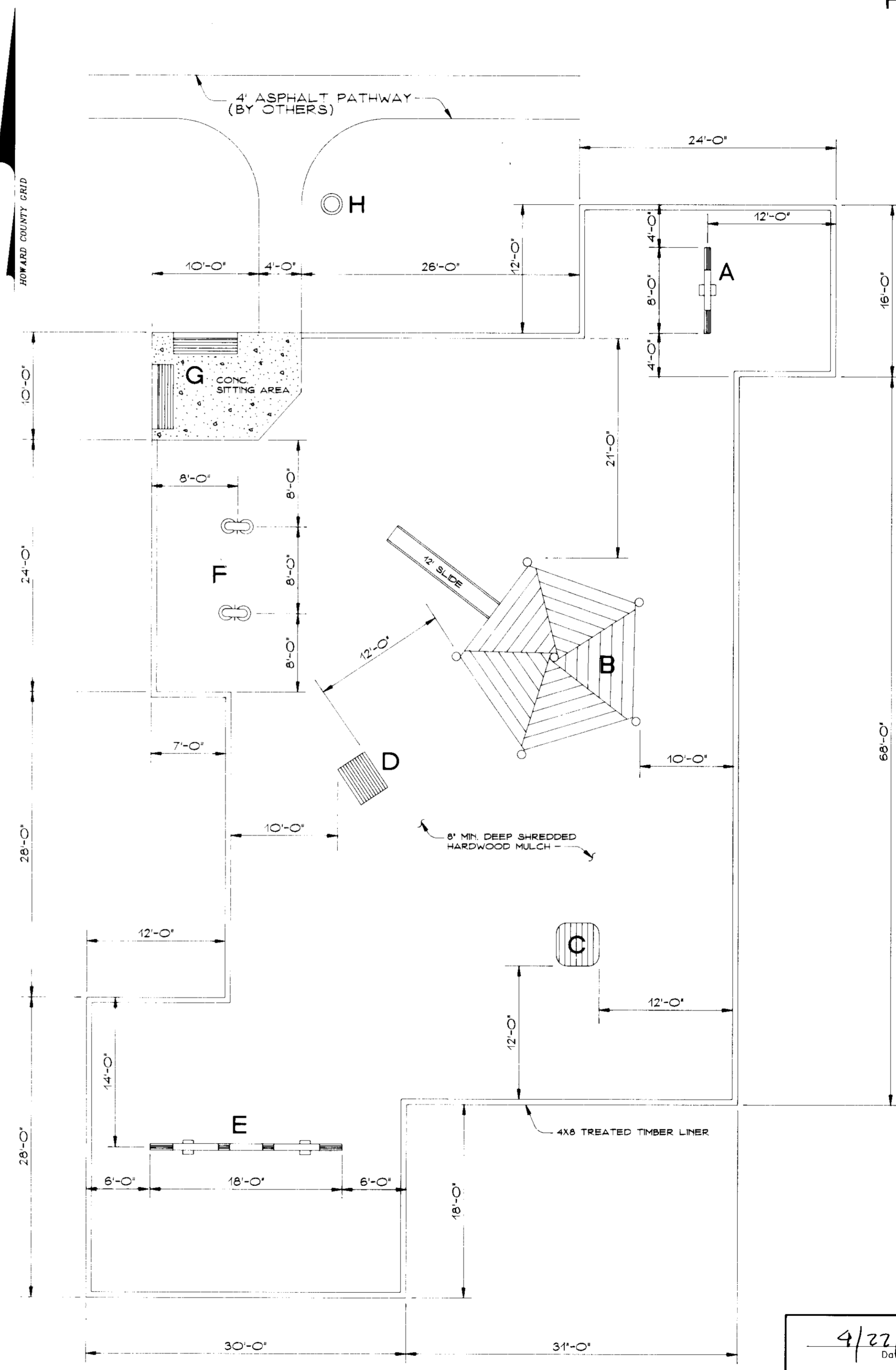
TOTAL AREA	= 1443,468 SQ. FT.	33.137 ACRES
DISTURBED AREA	= 13,160 SQ. FT.	
IMPERVIOUS AREA	= 132 SQ. FT.	
PERVIOUS AREA	= 4,556 SQ. FT.	
ZONED OPEN SPACE		
AREA TO BE VEGETATIVELY STABILIZED	= 8,473 SQ. FT.	
TOTAL CUT	= 20 CY	
TOTAL FILL	= 20 CY	
TOTAL SPOIL	= 0 CY	

PROPOSED EQUIPMENT

- A - 1' SWING WITH 2 SWING SEATS
- B - SPIRAL FORT L-5 WITH 12' SLIDE
- C - SPRING PAD
- D - CRAWL-THROUGH TUNNEL
- E - DOUBLE 1' SWING WITH 4 SWING SEATS
- F - (2) SPRING ANIMALS
- G - (2) PERMANENT BENCHES
- H - PERMANENT TRASH CONTAINER



PLAN
SCALE: 1" = 30'



PLAN
SCALE: 1/8" = 1'-0"

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J.H. Warfield 11/1/93
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 4/27/93
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. Ellis 4.25.93
DEVELOPER: DENIS ELLIS DATE
COLUMBIA PARK AND RECREATION ASSOCIATION

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

John R. Heinrichs 11/1/93
HOWARD S.C.D. DATE

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

Joan Bergman 11-12-93
COUNTY HEALTH OFFICER DATE

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

James J. Lee 11/8/93
DIRECTOR DATE

E. Edward B. DeSantis 11/3/93
CHIEF, BUREAU OF ENGINEERING, M.K. CO 11/8/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James J. Lee 11/19/93
PLANNING DIRECTOR DATE

Gina Summari 11/19/93
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

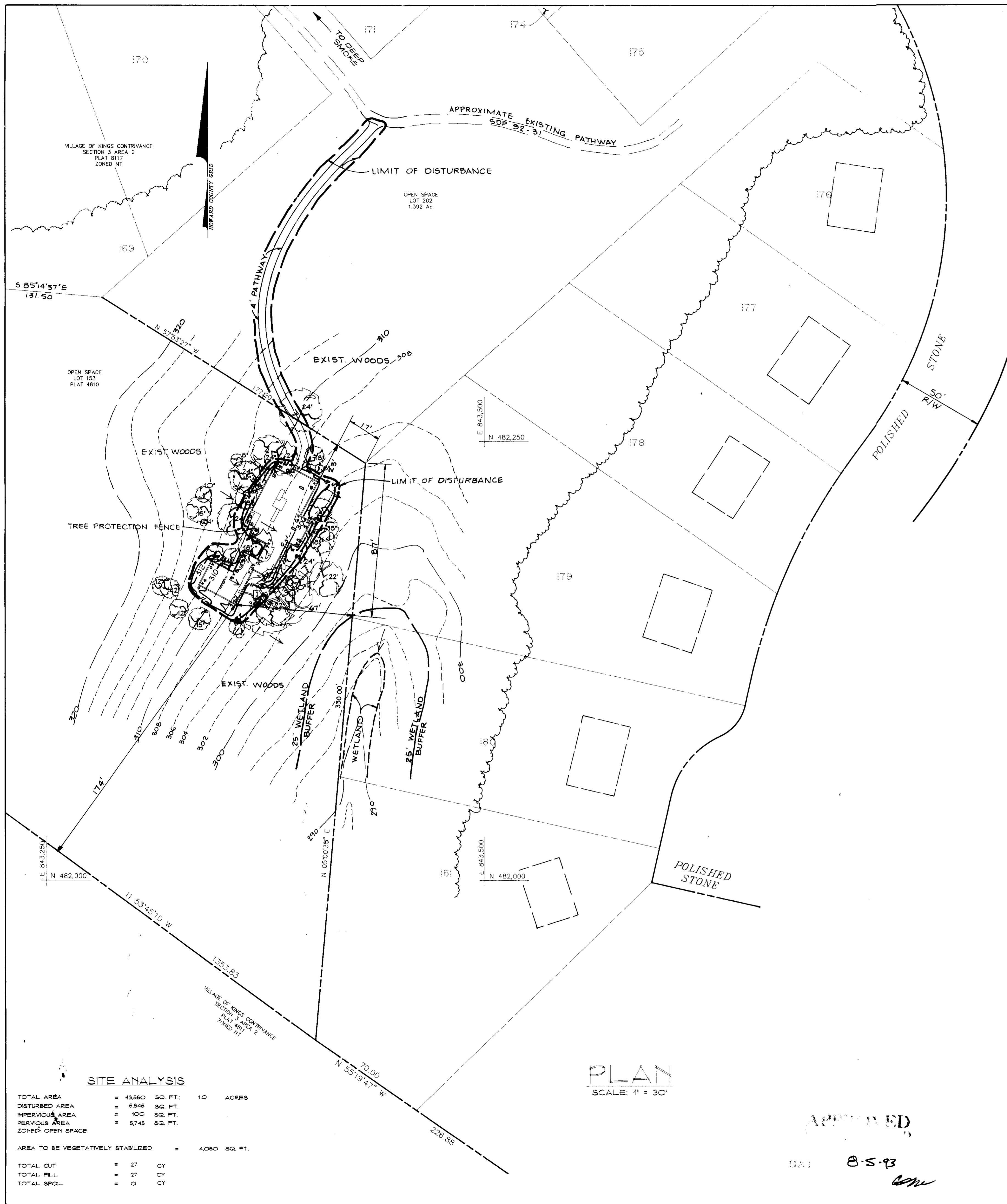
PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
817 BALDWIN CROCKER LANE, SUITE 300
BALTIMORE, MARYLAND 21229
(410) 247-8833 FAX 247-8387

AREA: VILLAGE OF KING'S CONTRIVANCE SECTION 3 AREA 2
P/O OPEN SPACE LOT 152
91A ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

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

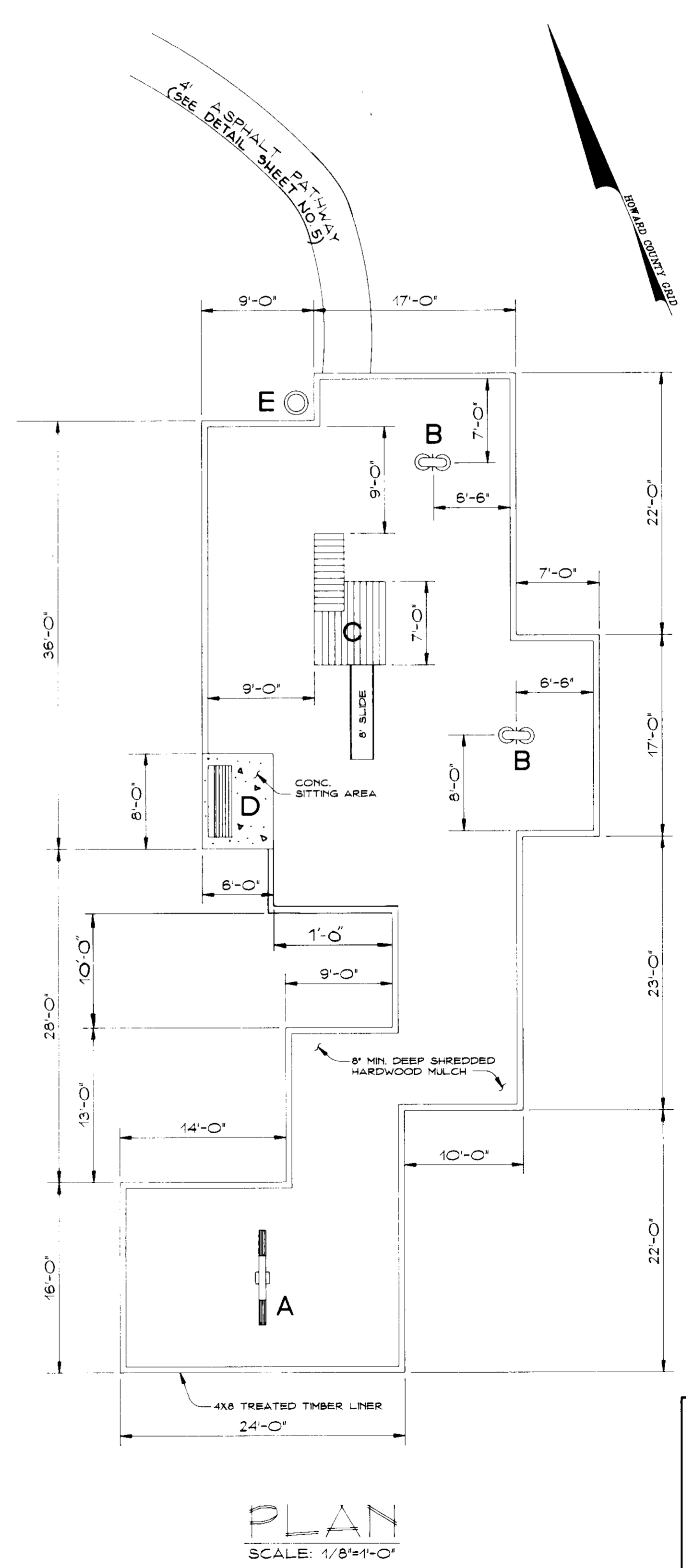
Des By	R.J.W.	Scale	1" = 30'	Proj No	93-0010 MCTP204G
Des By	A.J.R.	Date	APRIL 1993	DRAWING NO	
Des By	J.R.H.	SDP-93-125			3 OF 5

4/22/93
Date
John R. Heinrichs
JOHN R. HEINRICHS
Professional Engr. No. 14920



PROPOSED EQUIPMENT

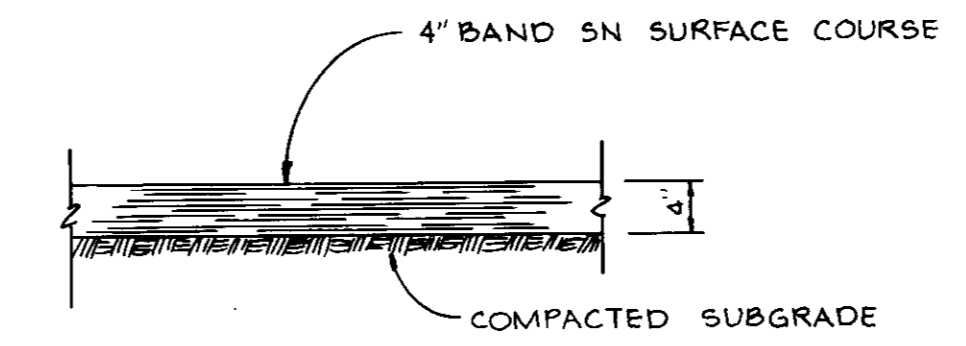
- A - 1' SWING
- B - (2) SPRING ANIMALS
- C - FORT C-FORT R-2 WITH 8' SLIDE
- D - PERMANENT BENCH
- E - PERMANENT TRASH CONTAINER



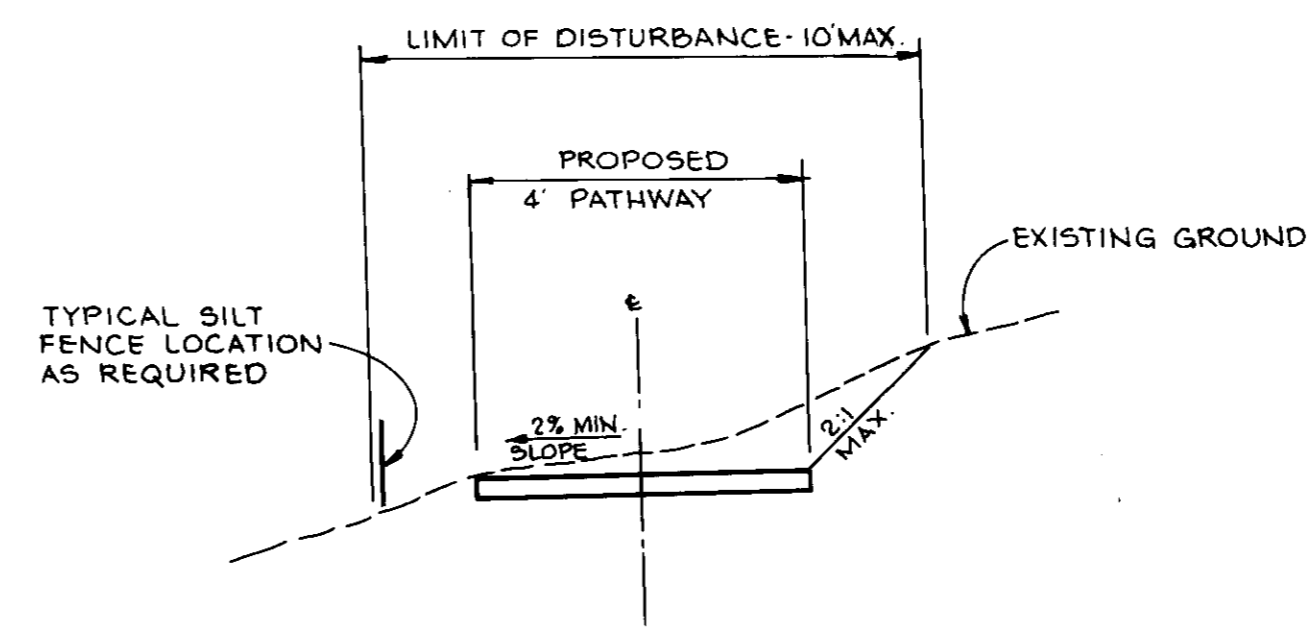
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS		
<i>J. H. Wainwright</i>	4/1/93	DATE
BY THE ENGINEER: I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.		
<i>John R. Heinrichs</i>	4/27/93	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 COUNTY SOIL CONSERVATION DISTRICT.		
<i>Denis Ellis</i>	4-29-93	DATE
DEVELOPER: DENIS ELLIS COLUMBIA PARK AND RECREATION ASSOCIATION		
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT		
<i>John R. Heinrichs</i>	4/1/93	DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT		
<i>James P. Lee</i>	11-12-93	DATE
APPROVED FOR PUBLIC WATER FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>James P. Lee</i>	11/8/93	DATE
DIRECTOR		
<i>C. E. ...</i>	11/8/93	DATE
CHIEF, BUREAU OF ENGINEERING M.K. ...		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
<i>...</i>	11/19/93	DATE
PLANNING DIRECTOR		
<i>Gina ...</i>	11/19/93	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		
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 817 MAIDEN CHOICE LANE, SUITE 300 BALTIMORE, MARYLAND 21208 (410) 247-8833 FAX 247-8807		
AREA	VILLAGE OF KING'S CONTRIVANCE SECTION 3 AREA 2 P/O OPEN SPACE LOT 153 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	83-0010	KCTO:DMC
Dir By	A.J.R.	Date APRIL 1993
DRAWING NO		
Chk By	J.R.H.	SDP-93-123
		4 OF 5

4/27/93
Date

John R. Heinrichs
JOHN R. HEINRICHS
Professional Eng. No. 14920

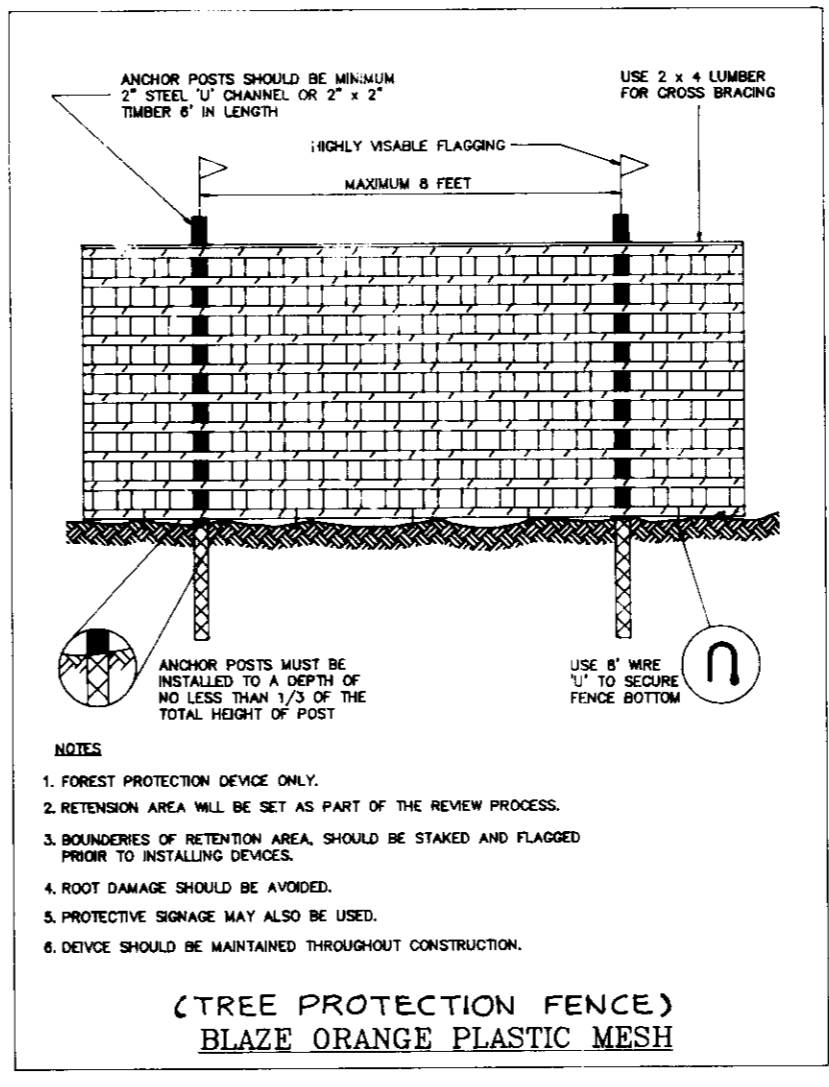


PATHWAY PAVING SECTION



TYPICAL PATHWAY CROSS SECTION

PATHWAY DETAILS
NO SCALE

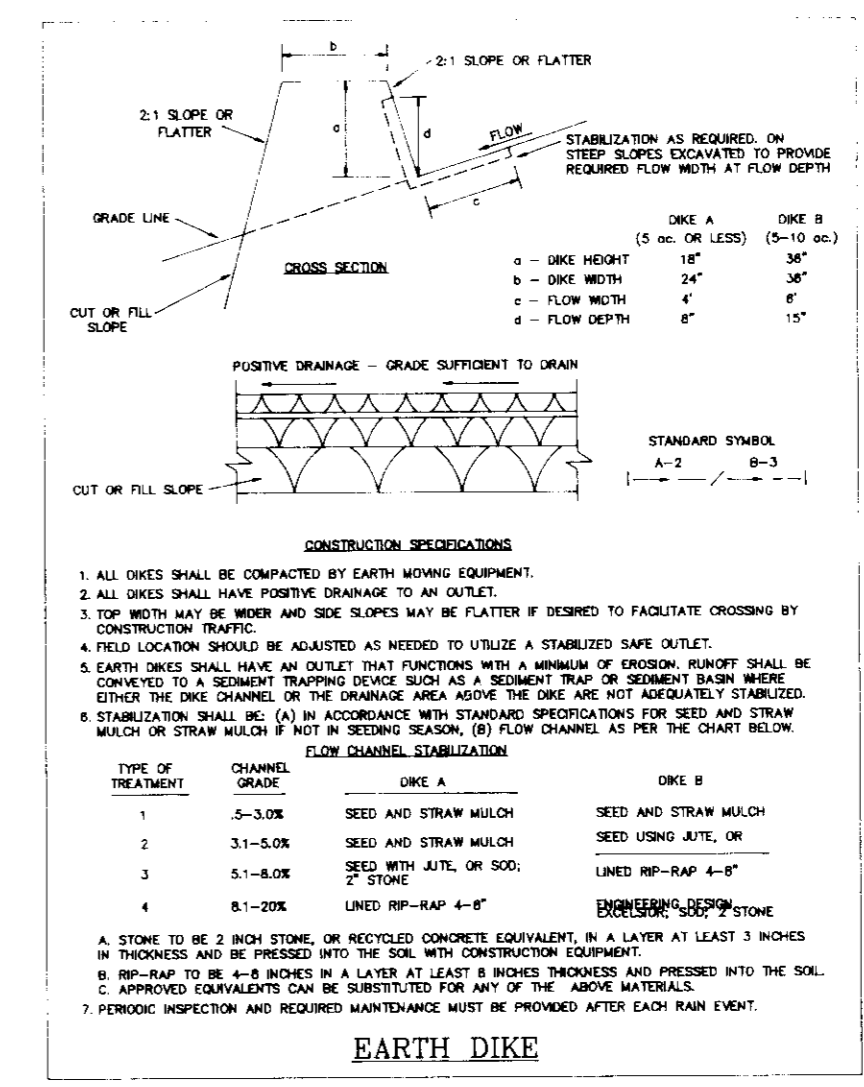


**(TREE PROTECTION FENCE)
BLAZE ORANGE PLASTIC MESH**

SEQUENCE OF CONSTRUCTION

- 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 INCLUDING SILT FENCE FOR PATHWAY CONSTRUCTION AND TREE PROTECTION FENCE.
- 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 IMMEDIATELY.
- 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 AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

APPROVED
8-5-93
COM



EARTH DIKE

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF PERMITS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION 315-1857.
- 2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THE HANDBOOK AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3. FOLLOWING FINAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERMITS. SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL BARRIERS SHALL BE MAINTAINED AT ALL TIMES. OTHER DISTURBED OR GRADED AREAS MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 15 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED AND IN ACCORDANCE WITH THE HANDBOOK AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEE 3) SOIL MULCH, SEED, MULCH, STRAW MULCH AND MULCHING (SEE 3) TEMPORARY STABILIZATION WITH MULCH MULCHING CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED BY OPERATIVE CONTROL UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 6. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 7. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DENSELY NEEDED BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 8. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE OBTAINED UPON COMPLETION OF INSTALLATION OF PERIMETER BARRIERS 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 FINAL 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-LIVED VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING DISCS OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 - 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (80 LBS/1000 SQ FT) AND 100 LBS PER ACRE 10-0-00 FERTILIZER (10 LBS/1000 SQ FT) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
 - 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (80 LBS/1000 SQ FT) AND 100 LBS PER ACRE 10-0-00 FERTILIZER (10 LBS/1000 SQ FT) BEFORE SEEDING HARROW 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 40 LBS PER ACRE (4000 LBS/1000 SQ FT) OF BENTONIC 31 TALL PEGGIE FOR THE PERIOD MAY 1 THRU JULY 31 SEED WITH 80 LBS KENTUCKY 31 TALL PEGGIE FOR THE PERIOD AUGUST 1 THRU SEPTEMBER 30 SEED WITH 80 LBS PER ACRE OF VERNER LOWE GRASS (7 LBS/1000 SQ FT) FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOG.
- MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 20 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOLS OR 20 GALLONS PER ACRE OF 3/4\"/>

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 DISCS OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 800 LBS PER ACRE 10-0-00 FERTILIZER (8 LBS/1000 SQ FT).
- SEEDS: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 31 SEED WITH 2 1/2 TONS PER ACRE OF ANNUAL RYE (12 LBS/1000 SQ FT) FOR THE PERIOD MAY 1 THRU AUGUST 31 SEED WITH 3 LBS PER ACRE OF VERNER LOWE GRASS (7 LBS/1000 SQ FT) FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOG.
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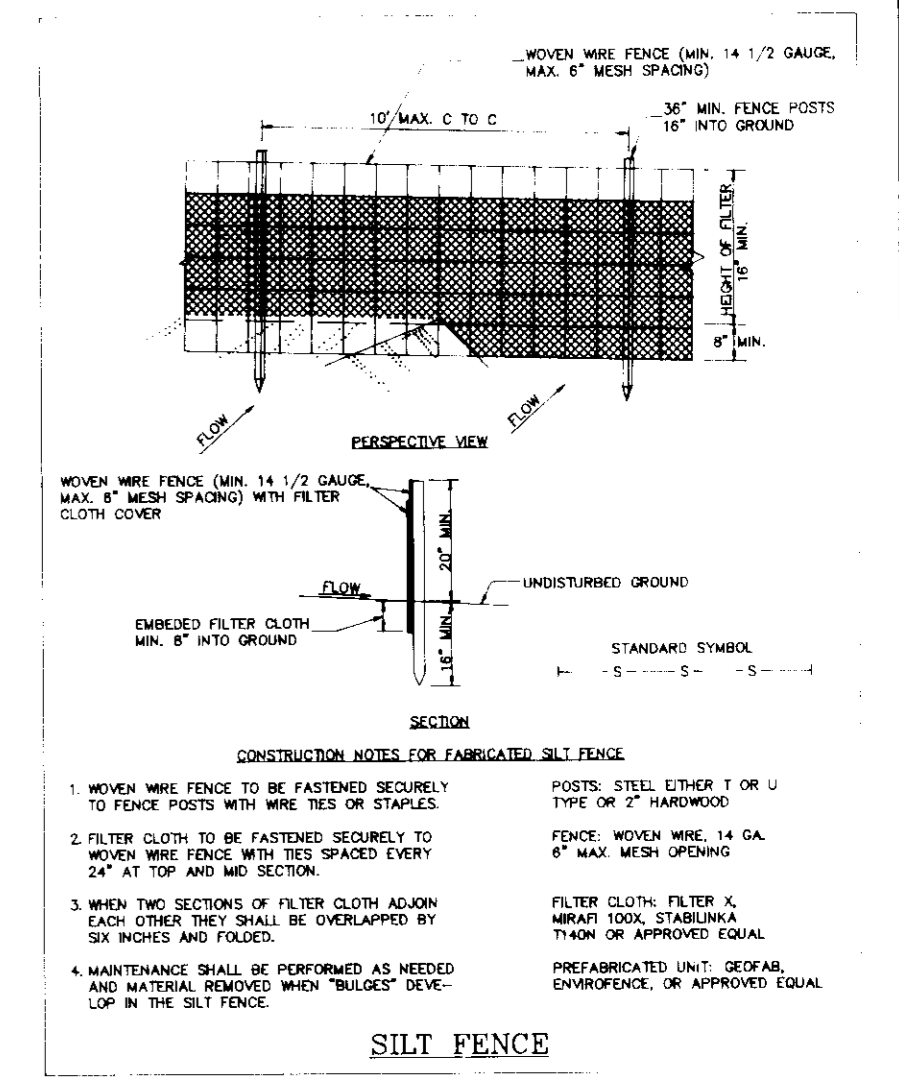
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4/27/93
Date
JOHN R. HEINRICHS
Professional Engr. No. 14320



SILT FENCE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH 2\"/>

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(410) 247-8853 FAX 247-9387

AREA: VILLAGE OF KINGS CONTRACTION SECTION 3 AREA 2
OPEN SPACE LOTS 151, 152 & 153
6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE: TOT LOTS
SEDIMENT CONTROL
NOTES AND DETAILS

Des By	R.J.W.	Scale	AS SHOWN	Proj No	93-000 KDD/T/W
Des By	A.J.R.	Date	APRIL, 1993	DRAWING NO.	5 OF 5
Des By	J.R.H.	Scale	SUP-93-125		

SDP 93-123