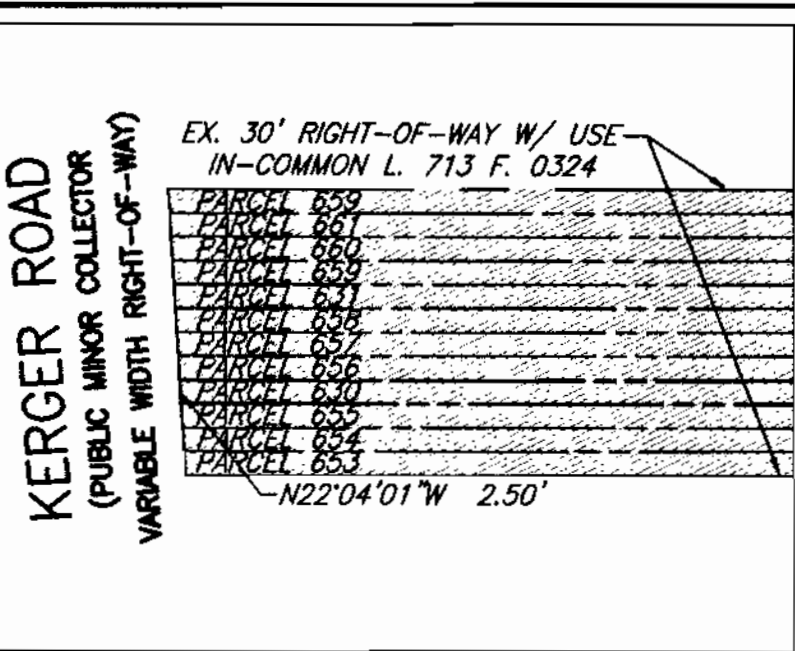


SITE PLAN
SCALE: 1"=20'



ACCESS DETAIL
SCALE: 1"=20'

SITE ANALYSIS DATA CHART:

- TOTAL PROJECT AREA: 1.132 AC OR 49309.92 SF
- LIMIT OF DISTURBED AREA: 0.781 AC OR 34021.51 SF
- PRESENT ZONING DESIGNATION: R-20
- PROPOSED USES FOR SITE AND STRUCTURES: SINGLE FAMILY DETACHED HOUSE
- BUILDING COVERAGE OF SITE: 0.055 AC OR 0.05% OF GROSS AREA
- DPZ FILE REFERENCES: CONTRACT NO. 10-4075, 14-4078
- EARTHWORK: CUT 18 CY
FILL 831 CY
TOTAL 813 CY OF FILL*
(NOT INCLUDING EX. GRAVEL TO BE REMOVED)

GENERAL NOTES:

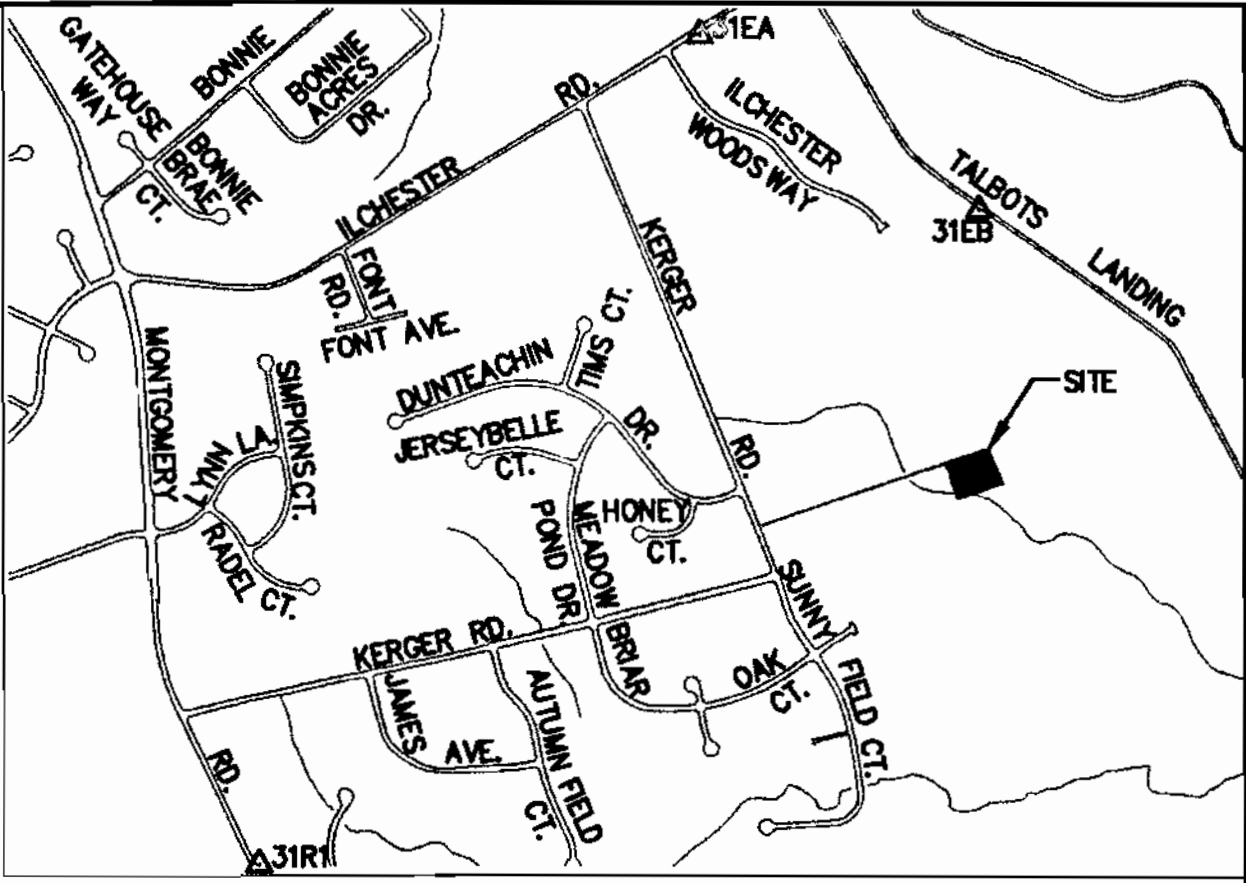
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE COMPREHENSIVE ZONING PLAN DATED 2/2/04.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK (APPLIES FOR RESIDENTIAL SDP'S).
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - WIDTH-12' (14' SERVING MORE THAN ONE RESIDENCE);
 - SURFACE-6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN);
 - GEOMETRY-MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;
 - STRUCTURES (CULVERTS/BRIDGES)-CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING);
 - DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
 - MAINTENANCE-SUFFICIENT TO INSURE ALL WEATHER USE.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- NO CEMETERIES ARE LOCATED ON THIS SITE.
- THE PROPERTY IS LOCATED IN ZONE C AS SHOWN ON THE HOWARD COUNTY FLOOD INSURANCE RATE MAP PANEL 240044 00298 PANEL 29 OF 45. A FLOODPLAIN STUDY WAS PREPARED BY ESE ON 4/28/05
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 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 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY ESE DATED JUNE 8, 2004 AND JUNE 2, 2005.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 31EA AND 31EB WERE USED FOR THIS PROJECT.
- EXISTING UTILITIES ARE BASED ON PUBLIC WATER AND SEWER CONTRACT NO. 10-4075 AND 14-4078.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE 1994 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL INSTALL THE STONE CONSTRUCTION ENTRANCE AND SILT FENCE AND HAVE IT INSPECTED BY HOWARD COUNTY PRIOR TO ANY EARTH DISTURBANCE.
- WATER HOUSE CONNECTION SHALL BE CONSTRUCTED FOR INSIDE METER PER HOWARD COUNTY STANDARD DETAIL W 3.21.
- THIS PROJECT IS CONDITIONALLY EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS WITH THE FILING OF A DECLARATION OF INTENT FOR A SINGLE LOT CLEARING LESS THAN 40,000 SQUARE FEET OF FOREST IN ACCORDANCE WITH SECTION 16.1202(b)(2)(i) OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL.

**HOWARD COUNTY
GEODETIC SURVEY CONTROL**

31EA NORTHING: 569,841.124 FT
EASTING: 1,374,915.936 FT
ELEV.: 469.604 FT

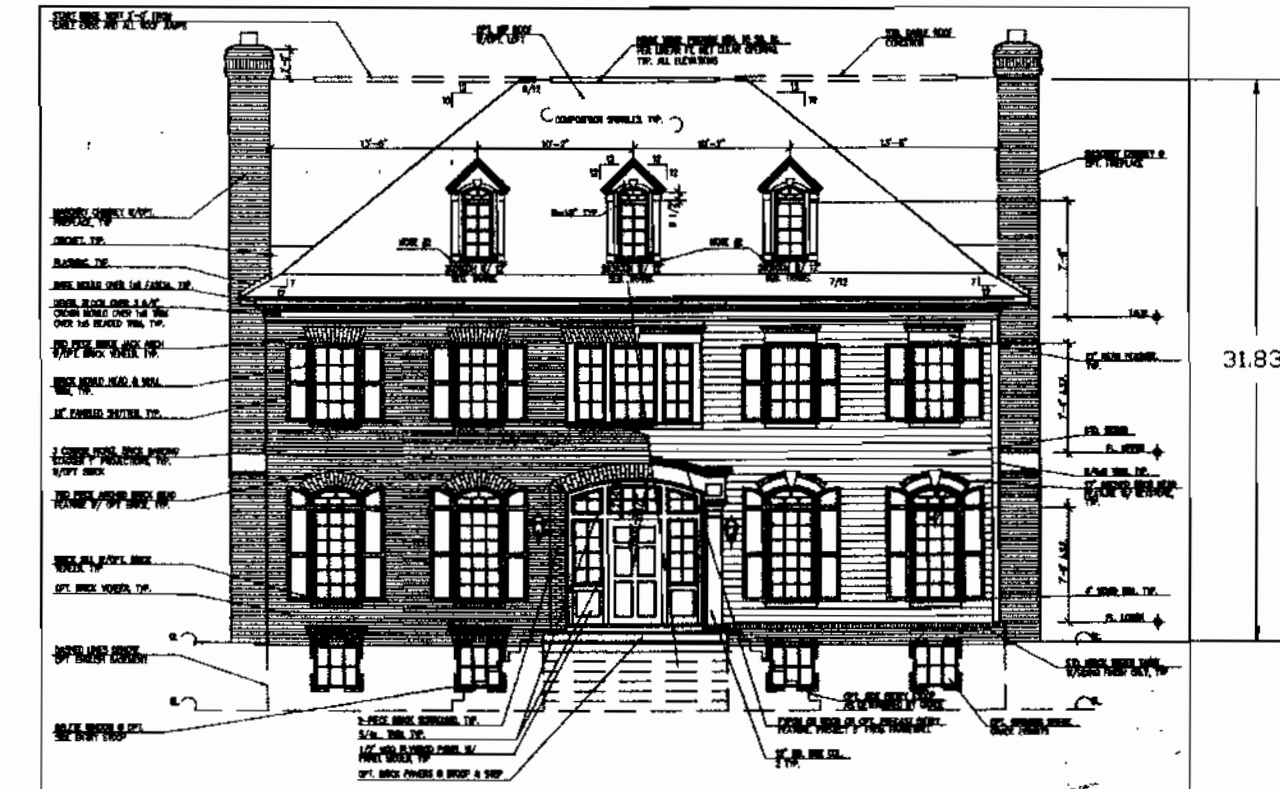
31EB NORTHING: 568,730.984 FT
EASTING: 1,376,273.491 FT
ELEV.: 453.398 FT

31RI NORTHING: 565,303.465 FT
EASTING: 1,372,517.678 FT
ELEV.: 401.748 FT



VICINITY MAP
SCALE: 1"=1000'

PARCEL #	ADJACENT OWNER INFORMATION	ADDRESS	LIBER/FOLIO	ZONED
659	R/E GROUP INC.	5381 KERGER ROAD	L. 6904 F. 518	R-20
661	LARRY D. WAGONER	5287 KERGER ROAD	L. 4330 F. 22	R-20
660	LARRY D. WAGONER	5287 KERGER ROAD	L. 4330 F. 22	R-20
659	R/E GROUP INC.	5381 KERGER ROAD	L. 6904 F. 518	R-20
631	ANTHONY F. RANDAZZO	5289 KERGER ROAD	L. 3443 F. 450	R-20
658	ANTHONY F. RANDAZZO	5289 KERGER ROAD	L. 5123 F. 161	R-20
657	ROBERT WERTZ	5293 KERGER ROAD	L. 5123 F. 161	R-20
656	ROBERT WERTZ	5293 KERGER ROAD	L. 5123 F. 161	R-20



PROPOSED HOUSE ELEVATION
NOT TO SCALE

PERMIT INFORMATION CHART					
SUBDIVISION NAME KIRBY PROPERTY		SECTION/AREA NA		LOT/PARCEL NO. 630/40	
LIBER/FOLIO 1836/157	GRID 22	ZONING R-20	TAX MAP NO. 31	ELECTION DIST. 01	CENSUS TRACT 6011.01
WATER CODE D-03			SEWER CODE 2155000		
ADDRESS CHART					
LOT/PARCEL #		STREET ADDRESS			
40		5301 KERGER ROAD			

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."

Carrie A. Ozgar
CARRIE A. OZGAR
DATE: 7-6-05

OWNER'S/DEVELOPER'S CERTIFICATE

"I, WE, CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR EROSION AND SEDIMENT CONTROL, AND THAT ALL 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."

Patrick M. Kirby
PATRICK M. KIRBY
DATE: 7-6-05

USDA - N.R.C.S. CERTIFICATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John M. ...
USDA - NATURAL RESOURCES CONSERVATION SERVICE
DATE: 7/8/05

HOWARD S.C.D. CERTIFICATE

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

J.R. Robertson, Inc.
HOWARD S.C.D.
DATE: 7/8/05

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/12/05

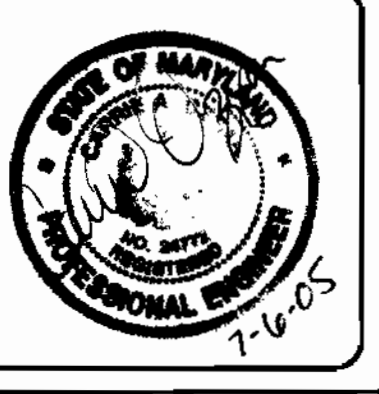
[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/12/05

[Signature]
DIRECTOR
DATE: 7/16/05

ESE EASTERN STATES ENGINEERING

7164 COLUMBIA GATEWAY DR. SUITE 230
COLUMBIA, MD 21046
TEL: (410) 872-9105
FAX: (410) 872-9141

CIVIL ENGINEERS - LAND SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS



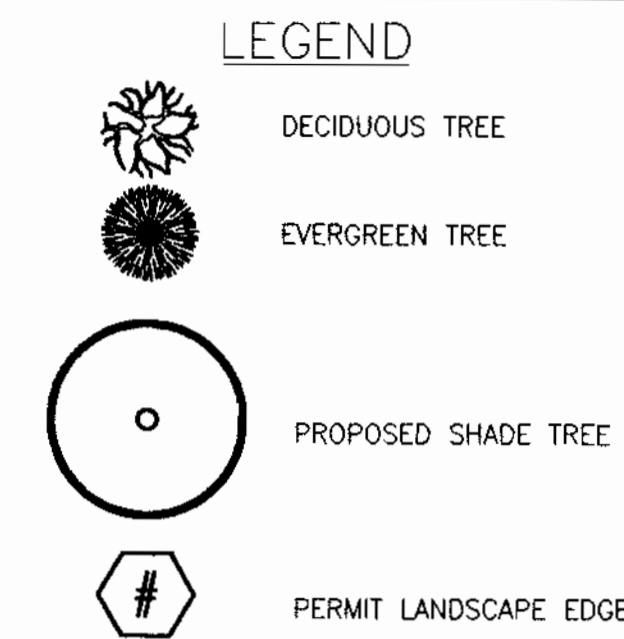
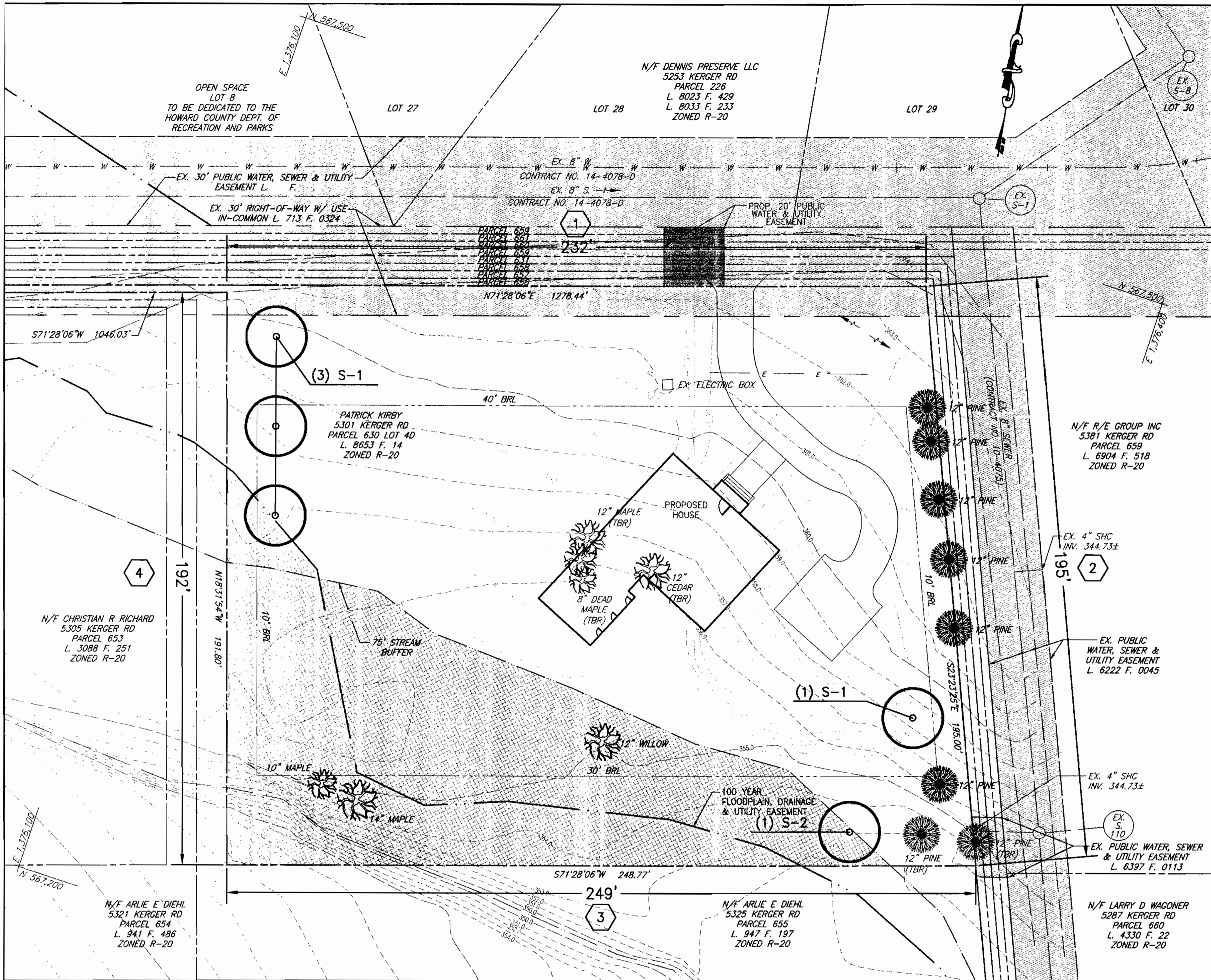
**SITE DEVELOPMENT PLAN
KIRBY PROPERTY**

SINGLE FAMILY DETACHED DWELLING
5301 KERGER ROAD
MAP 31 GRID 22 PARCEL 630 LOT 4D
LIBER 1836 FOLIO 157
ELECTION DISTRICT 01 HOWARD COUNTY, MARYLAND

DATE: 07/06/05 CHECKED: CAO

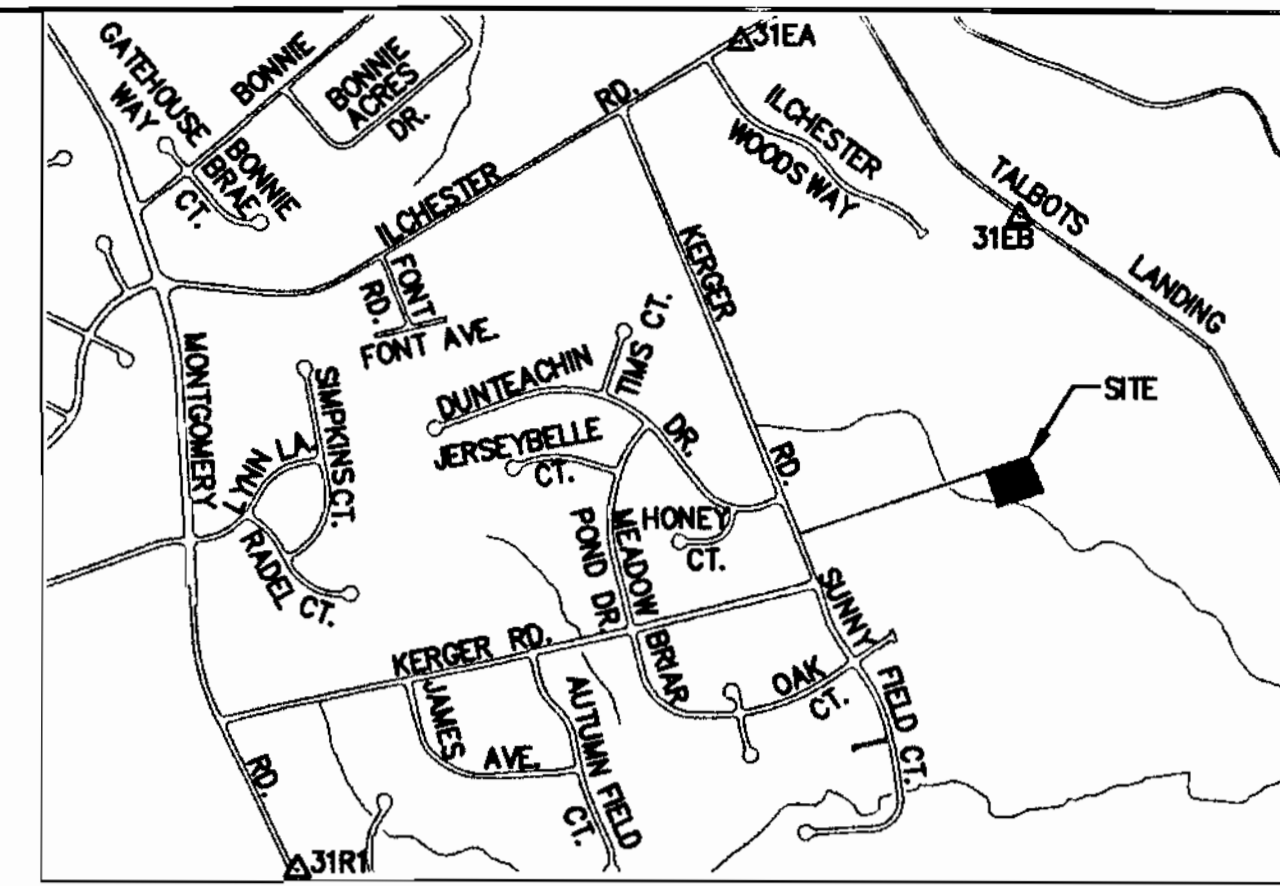
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DRAWN: DW/CAO SHEET NO.: 1 OF 3



LANDSCAPE NOTES

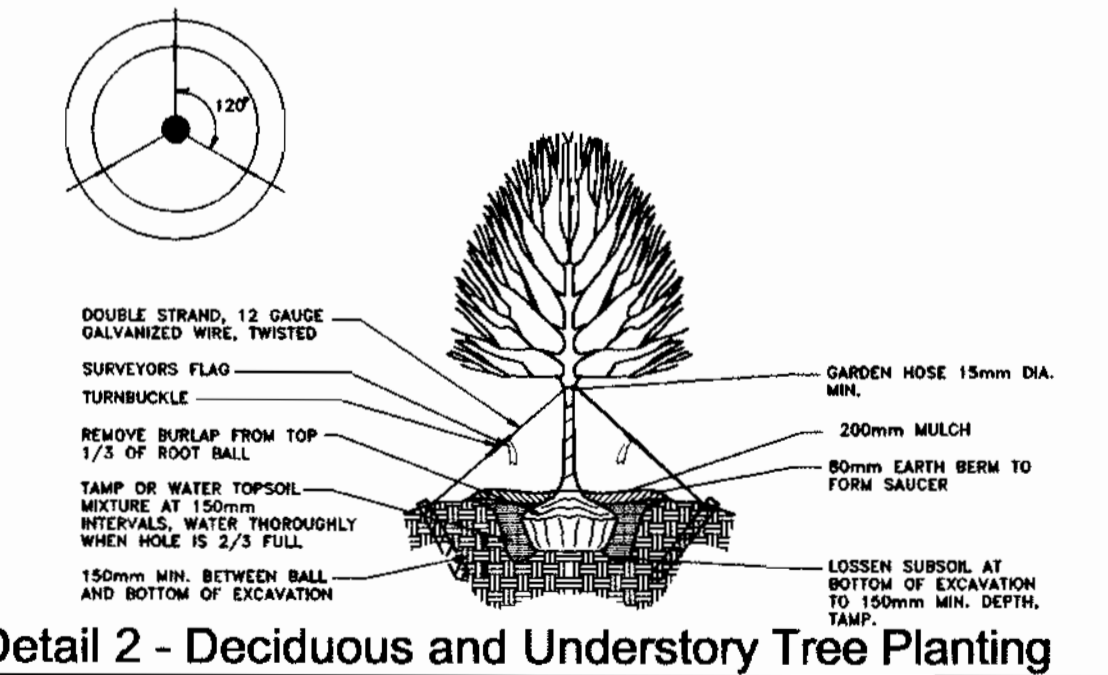
- SEE TREE PLANTING DETAIL ON THIS SHEET.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED IN THE AMOUNT OF \$1,500.00 FOR 5 SHADE TREES WITH THE BUILDER'S GRADING PERMIT APPLICATION.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HERewith LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL AND/OR DELAY IN THE RELEASE OF THE LANDSCAPE SURETY UNTIL SUCH TIME AS ALL THE REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
- EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.



LANDSCAPE PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
S-1	4	ACER RUBRUM 'RED SUNSET' RED SUNSET MAPLE	2-1/2" - 3" CAL.
S-2	1	SALIX BABYLONICA WEeping WILLOW	2-1/2" - 3" CAL.

SCHEDULE A PERIMETER LANDSCAPE EDGE				
CATEGORY	ADJACENT TO PERIMETER PROPERTIES			
	1	2	3	4
LANDSCAPE TYPE	A	A	A	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	232	195	249	192
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	YES	YES	NO
CREDIT FOR WALL, FENCE, BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED				
SHADE TREES	0	4	4	3
EVERGREEN TREES	0	0	0	0
SHRUBS	0	0	0	0
NUMBER OF PLANTS PROVIDED				
SHADE TREES	0	1	1	3
EVERGREEN TREES	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)		6 EX PINES (3)	3 EX SHADE TREES (3)	

COMMENTS:
CREDIT HAS BEEN TAKEN FOR EXISTING TREES TO REMAIN IF LOCATED WITHIN 20' OF THE PROPERTY LINE.



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

PATRICK KIRBY 7/12/05

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION 7/12/05
CHIEF, DIVISION OF LAND DEVELOPMENT 7/12/05
DIRECTOR 7/12/05

ESE EASTERN STATES ENGINEERING
7164 COLUMBIA GATEWAY DR. SUITE 230
COLUMBIA, MD 21046
TEL: (410) 872-9105
FAX: (410) 872-9141

CIVIL ENGINEERS - LAND SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS



LANDSCAPE PLAN
KIRBY PROPERTY
SINGLE FAMILY DETACHED DWELLING
5301 KERGER ROAD
MAP 31 GRID 22 PARCEL 630 LOT 4D
LIBER 1836 FOLIO 157
ELECTION DISTRICT 01 HOWARD COUNTY, MARYLAND

DATE	DESCRIPTION	DRAWN

DATE: 07/06/05	CHECKED: CAO	ORDER NO.: ---
SCALE: AS SHOWN	FILE NAME: KIRBY_SDP_02.DWG	
DRAWN: DWC/CAO	SHEET NO.: 2	OF 3

OWNER: PATRICK M. KIRBY
3750 COLLEGE AVE
ELLCOTT CITY, MD

SEQUENCE OF CONSTRUCTION:

- OBTAIN A GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN IN ACCORDANCE WITH DETAILS.
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE WITH TOPSOIL AND SEEDING NOTES. ALL DOWNSPOUTS, SWALES, DITCHES AND OTHER CONCENTRATED FLOW AREAS SHALL RECEIVE EROSION CONTROL MATTING. *REMOVE 2" TOPSOIL (2' x 2'), 14" x 14" x 2"*
- AFTER THE SITE IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

STANDARD 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 (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALANDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES 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 VOLUME 1, CHAPTER 7 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, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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 = 1.132 ACRES
 AREA DISTURBED = 0.781 ACRES
 AREA TO BE ROOFED OR PAVED = 0.197 ACRES
 AREA TO BE VEGETATIVELY STABILIZED = 0.584 ACRES
 TOTAL CUT = 18 CU. YDS.
 TOTAL FILL = 831 CU. YDS.
 OFFSITE WASTE/BORROW AREA LOCATION: N/A
- 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 CONTROL 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 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 THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

- SOIL AMMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- PREFERRED**--APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS./ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS./ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ. FT.)
 - ACCEPTABLE**--APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 1000 LBS./ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING--FOR THE PERIODS MARCH 1--APRIL 30, AND AUGUST 1--OCTOBER 15, SEED WITH 60 LBS./ACRE (1.4 LBS./SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1--JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS./ACRE (0.05 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16--FEBRUARY 28, PROTECT 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 60 LBS./ACRE KENTUCKY 30 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

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 218 GALLONS PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPE 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

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

TEMPORARY SEEDING NOTES:

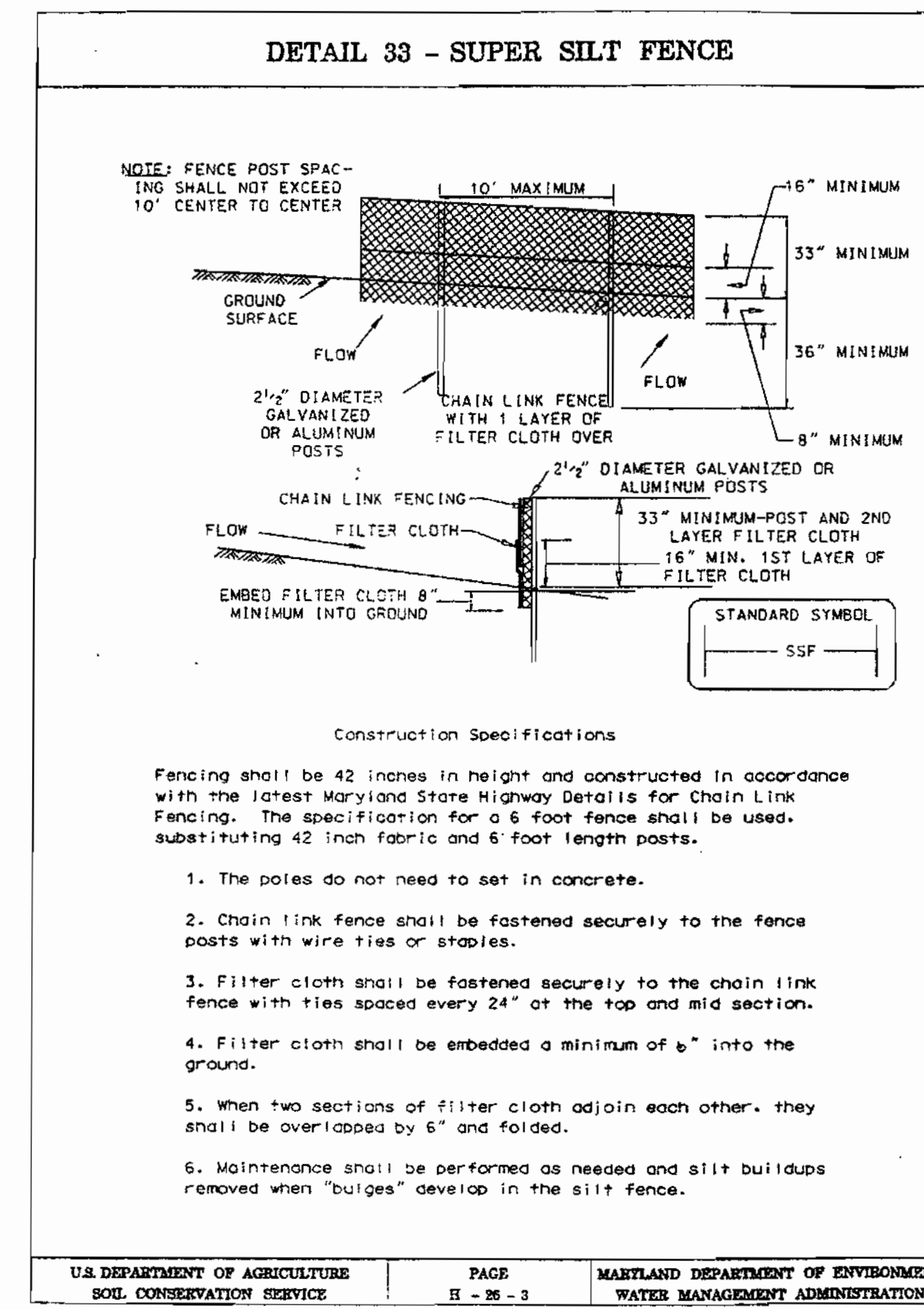
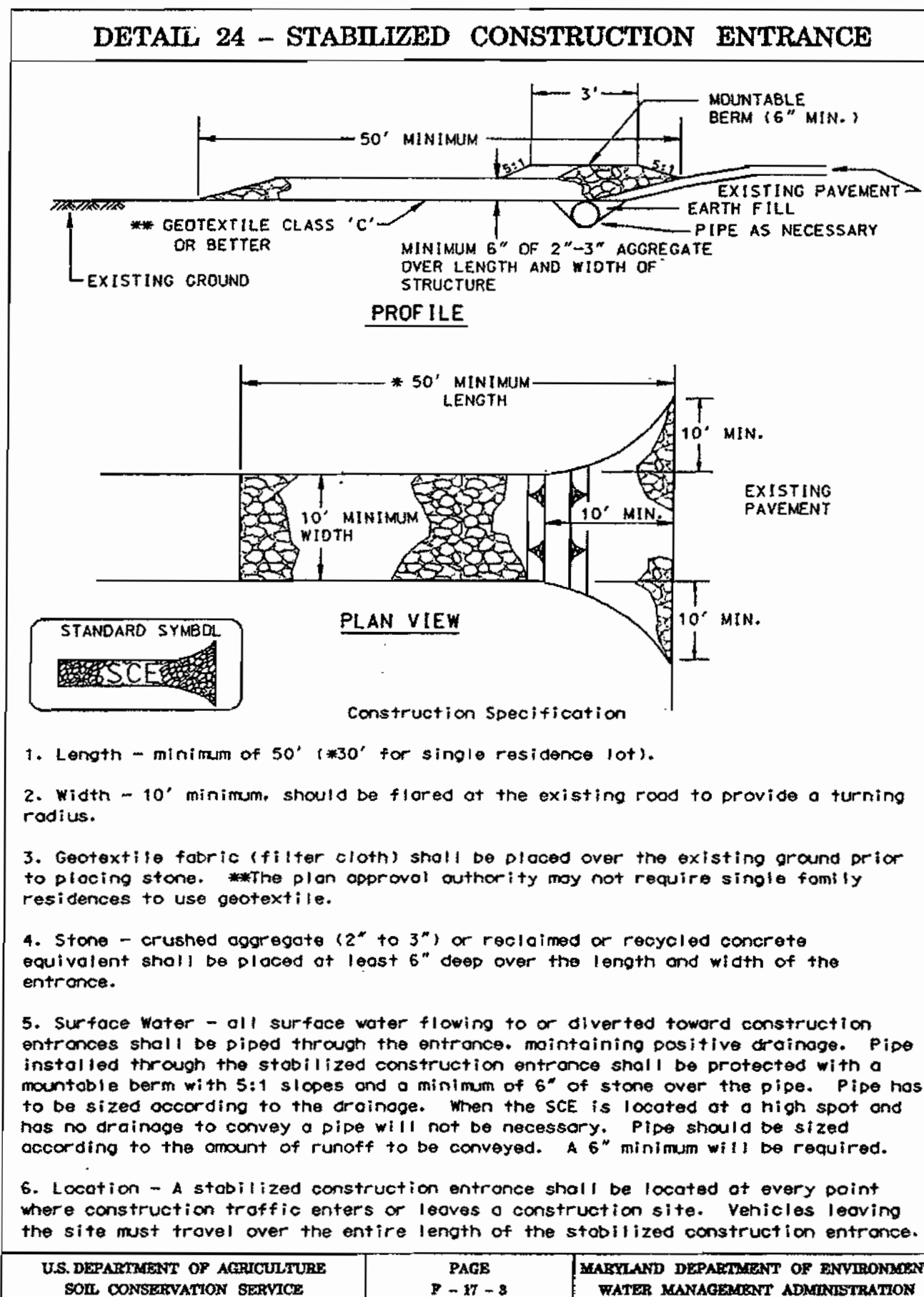
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

- SOIL AMMENDMENTS:** --APPLY 600 LBS./ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.).
- SEEDING**--FOR PERIODS MARCH 1--APRIL 30 AND AUGUST 15--OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./SQ. FT.). FOR THE PERIOD MAY 1--AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS./1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16--FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS/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/ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED WEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPE 8 FEET OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.



SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 8 - 26 - 3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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."

Carrie A. Ozgar 7-6-05
 CARRIE A. OZGAR DATE

OWNER'S/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 ALL 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."

Patrick M. Kirby 7/6/05
 PATRICK M. KIRBY DATE

USDA - N.R.C.S. CERTIFICATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jin Mym/ks 7/6/05
 USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE

HOWARD S.C.D. CERTIFICATE

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

J.R. Roberts/ks 7/6/05
 HOWARD S.C.D. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/6/05
 CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 7/6/05
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 7/6/05
 DIRECTOR DATE

ESE EASTERN STATES ENGINEERING

7164 COLUMBIA GATEWAY DR. SUITE 230 COLUMBIA, MD 21046
 TEL: (410) 872-9105 FAX: (410) 872-9141

CIVIL ENGINEERS - LAND SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS



SITE DEVELOPMENT PLAN KIRBY PROPERTY

SINGLE FAMILY DETACHED DWELLING
 5301 KERGER ROAD
 MAP 31 GRID 22 PARCEL 630 LOT 4D
 LIBER 1836 FOLIO 157
 ELECTION DISTRICT 01 HOWARD COUNTY, MARYLAND

DATE: 06/02/05	CHECKED: CAO
SCALE: AS SHOWN	FILE NAME: KIRBY_SDP_03.DWG
DRAWN: EAT/CAO	SHEET NO.: 3 OF 3

DATE DESCRIPTION DRAWN

SDP-0569