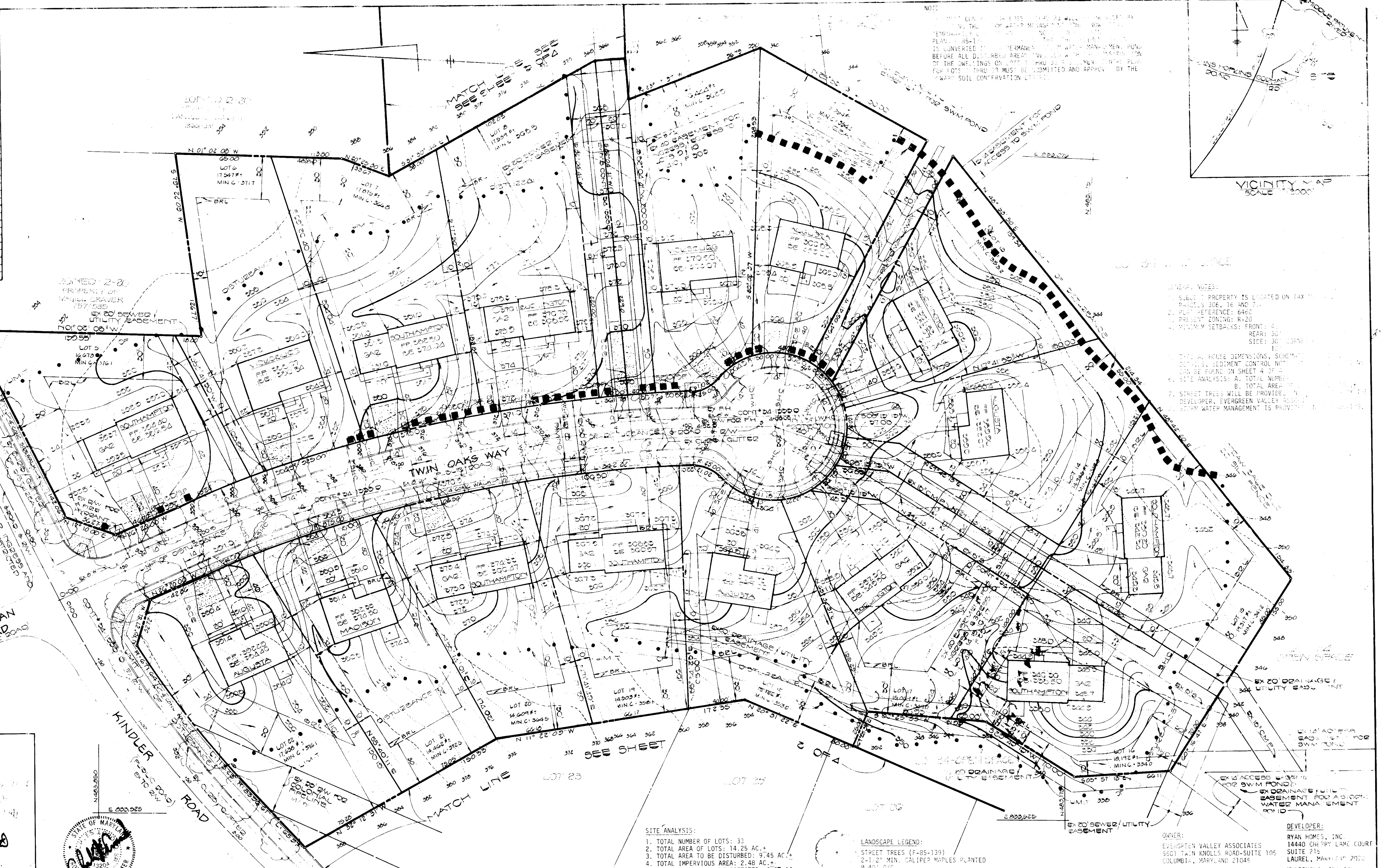
Lot No.	Street Address
[illegible]	[illegible] GORMAN ROAD
[illegible]	[illegible] GORMAN ROAD
[illegible]	644 GORMAN ROAD
[illegible]	640 GORMAN ROAD
[illegible]	7701 TWIN OAKS WAY
[illegible]	7705 TWIN OAKS WAY
[illegible]	[illegible]09 TWIN OAKS WAY
[illegible]	7713 TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	7729 TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	[illegible] TWIN OAKS WAY
[illegible]	7716 TWIN OAKS WAY
[illegible]	771[illegible] TWIN OAKS WAY
[illegible]	770[illegible] TWIN OAKS WAY
[illegible]	7704 TWIN OAKS WAY
[illegible]	7700 TWIN OAKS WAY
[illegible]	7680 KINDLER ROAD
[illegible]	7676 KINDLER ROAD
25	7672 KINDLER ROAD
26	7668 KINDLER ROAD
27	7664 KINDLER ROAD
28	7660 KINDLER ROAD
29	7656 KINDLER ROAD
30	7652 KINDLER ROAD
31	7648 KINDLER ROAD
32	7644 KINDLER ROAD
33	7640 KINDLER ROAD



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-27-85

STATE OF MARYLAND · REGISTERED PROFESSIONAL ENGINEER · 13204

SITE ANALYSIS:

1. TOTAL NUMBER OF LOTS: 33
2. TOTAL AREA OF LOTS: 14.25 AC.±
3. TOTAL AREA TO BE DISTURBED: 9.45 AC.±
4. TOTAL IMPERVIOUS AREA: 2.48 AC.±
5. TOTAL AREA TO BE REVEGETATED: 6.97 AC±

LANDSCAPE LEGEND:

STREET TREES (F-85-139)
2-1/2" MIN. CALIPER MAPLES PLANTED
@ 40' O/C
(BY EVERGREEN VALLEY ASSOCIATES)

OWNER:
EVERGREEN VALLEY ASSOCIATES
5501 TWIN KNOLLS ROAD-SUITE 105
COLUMBIA, MARYLAND 21045
TELEPHONE: 730-0810

DEVELOPER:
RYAN HOMES, INC.
14440 CHERRY LANE COURT
SUITE 215
LAUREL, MARYLAND 2070[illegible]
TELEPHONE: [illegible]

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
(301) 461-2855

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.

SIGNATURE OF ENGINEER — DATE 1/10/86

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 1/10/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE — DATE 1-16-85

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

DISTRICT — HOWARD SOIL CONSERVATION DISTRICT — DATE 1/16/86

APPROVED: OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE [illegible]-24-86

ACTING CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-24-86

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

HEALTH OFFICER — DATE 1-23-86

APPROVED: DEPARTMENT OF PUBLIC WORKS. FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

DIRECTOR, PUBLIC WORKS — DATE 1-17-86

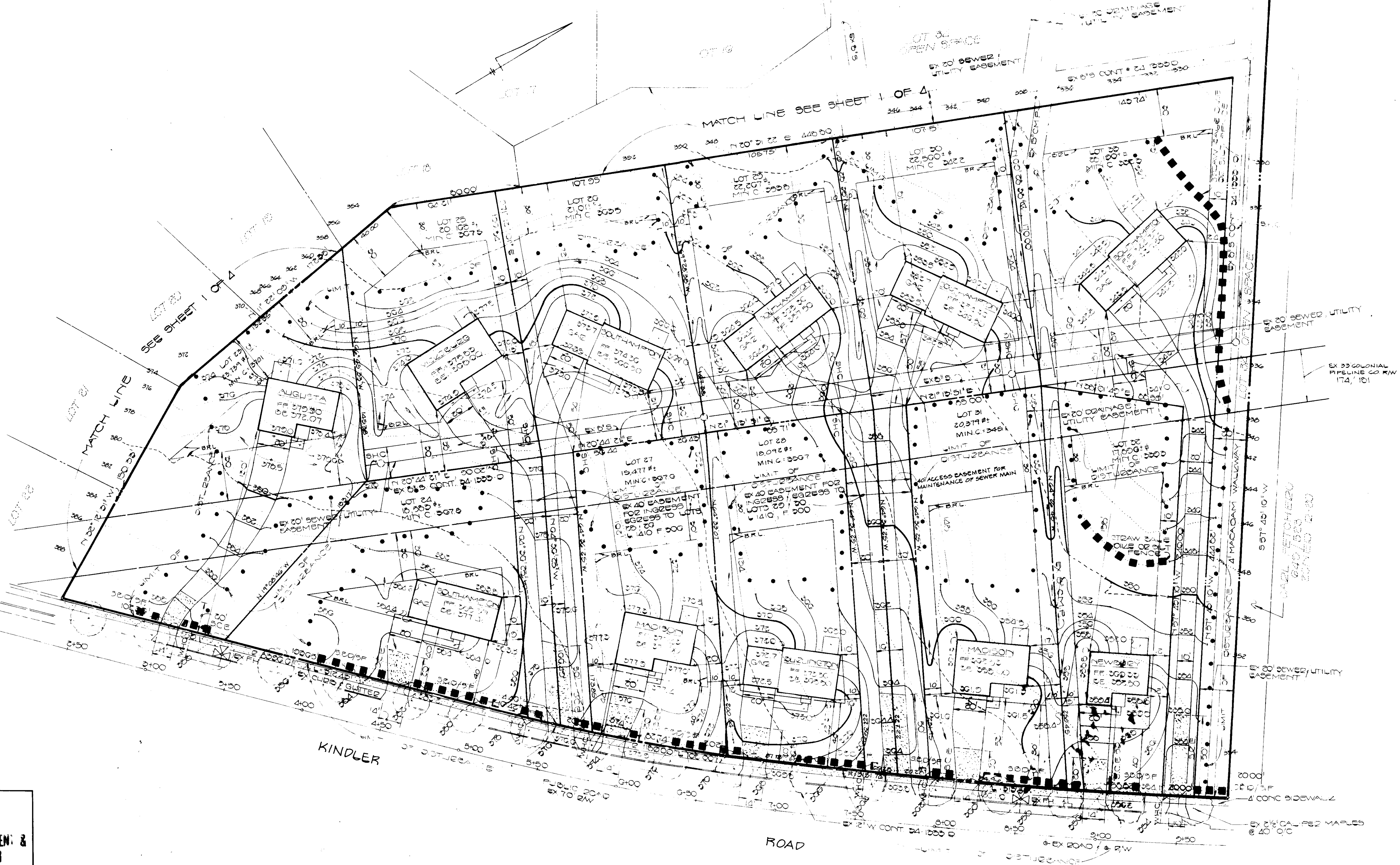
CHIEF, BUREAU OF ENGINEERING — DATE 1-17-86

SUBDIVISION				SECTION/AREA	LOT NOS
TWIN OAKS				—	1-33
PLAT NO. 6460	BLOCK NO. 17,18,23,24	ZONE R-20	TAX/ZONE 41	ELEC. DIST. 6TH	CENSUS TR. 6062
WATER CODE E-17			SEWER CODE 6430000		

SITE DEVELOPMENT PLAN
TWIN OAKS
LOTS 1 THRU 33

TAX MAP 41 P/O PARCELS [illegible]
6TH ELECTION DISTRICT HOWARD CO., MD
SCALE 1"=30' AUGUST 30, 1985
REVISED DECEMBER 3, 1985
SHEET 1 OF 4

SDP-86-50



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-27-85

NOTE:

SEDIMENT CONTROL FOR LOTS 1 THRU 33 WILL BE PROVIDED BY UTILIZING THE STORM WATER MANAGEMENT POND (NOW BEING TEMPORARILY USED AS AN EXISTING SEDIMENT BASIN) SEE PLANS F 85-139. IN THE EVENT THAT THE SEDIMENT BASIN IS CONVERTED INTO A PERMANENT STORM WATER MANAGEMENT POND BEFORE ALL DISTURBED AREAS INVOLVED WITH THE CONSTRUCTION OF THE DWELLINGS ON LOTS 1 THRU 33 A SEDIMENT CONTRL PLAN FOR LOTS 1 THRU 33 MUST BE SUBMITTED AND APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

SITE ANALYSIS:

1. TOTAL NUMBER OF LOTS: 33
2. TOTAL AREA OF LOTS: 14.25 AC.+
3. TOTAL AREA TO BE DISTURBED: 9.45 AC.+
4. TOTAL IMPERVIOUS AREA: 2.48 AC.+
5. TOTAL AREA TO BE REVEGETATED: 6.97 AC±

LANDSCAPE LEGEND:
STREET TREES (F-85-139)
2-1/2" MIN. CALIPER MAPLES PLANTED
@ 40' O/C
(BY EVERGREEN VALLEY ASSOCIATES)

OWNER:
EVERGREEN VALLEY ASSOCIATES
5501 TWIN KNOLLS ROAD-SUITE 105
COLUMBIA, MARYLAND 21045
TELEPHONE: 730-3310

DEVELOPER:
RYAN HOMES, INC.
14440 CHERRY LANE COURT
SUITE 215
LAUREL, MARYLAND 20707
TELEPHONE: 498-4300

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
(301) 461-2855

ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 1/10/86

DEVELOPER'S CERTIFICATE

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SIGNATURE OF DEVELOPER — DATE 1/10/85

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
U.S. SOIL CONSERVATION SERVICE — DATE 1-16-86

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED:
DISTRICT — DATE 1/16/86
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 1-24-86
ACTING CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-24-86

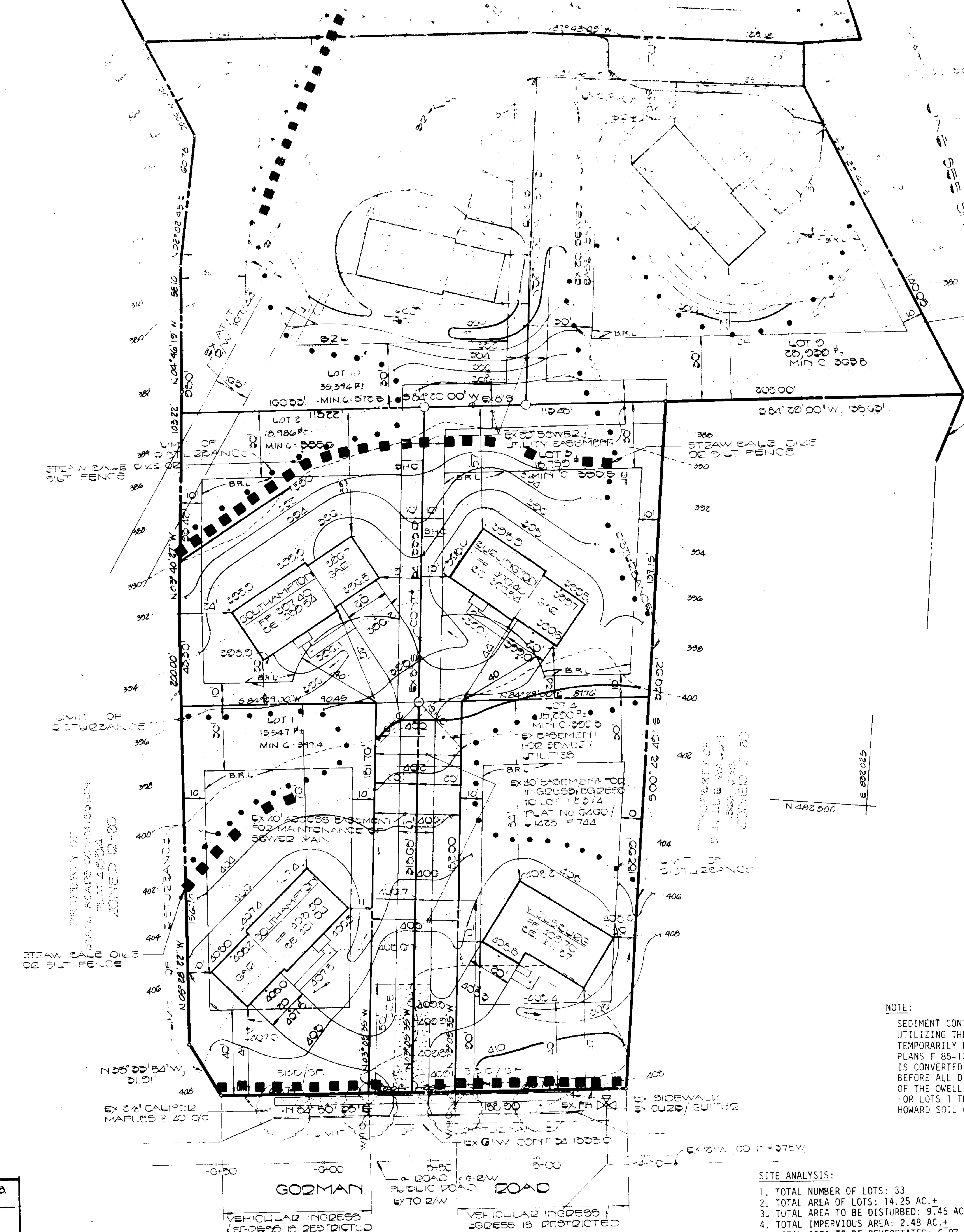
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HEALTH OFFICER — DATE 1-23-86

APPROVED: DEPARTMENT OF PUBLIC WORKS. FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
DIRECTOR PUBLIC WORKS — DATE 1-17-86
CHIEF, BUREAU OF ENGINEERING — DATE 1-17-86

SUBDIVISION				SECTION/AREA	LOT NOS.
TWIN OAKS				—	1-33
PLAT NO. 6460	BLOCK NO. 17,18,23,24	ZONE R-20	TAX/ZONE 41	ELEC. DIST 6TH	CENSUS TR. 6062
WATER CODE E-17			SEWER CODE 6430000		

SITE DEVELOPMENT PLAN
TWIN OAKS
LOTS 1 THRU 33
TAX MAP 41 P/O PARCELS
6TH ELECTION DISTRICT HOWARD CO. MD
SCALE 1"=30' AUGUST 20, 1985
REVISED DECEMBER 31, 1985
SHEET 2 OF 4

SDP 86-50



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-27-85

SUBDIVISION TWIN OAKS				SECTION/AREA —		LOT NOS 1-33
PLAT NO. 6490	BLOCK NO. 17,18,23,24	ZONE R-20	TAX/ZONE 41	ELEC. DIST. 6TH		CENSUS TR. 6062
WATER CODE E-17				SEWER CODE 6430000		

NOTE:

SEDIMENT CONTROL FOR LOTS 1 THRU 33 WILL BE PROVIDED BY UTILIZING THE STORM WATER MANAGEMENT POND (NOW BEING TEMPORARILY USED AS AN EXISTING SEDIMENT BASIN) SEE PLANS F 85-139. IN THE EVENT THAT THE SEDIMENT BASIN IS CONVERTED INTO A PERMANENT STORM WATER MANAGEMENT POND BEFORE ALL DISTURBED AREAS INVOLVED WITH THE CONSTRUCTION OF THE DWELLINGS ON LOTS 1 THRU 33 A SEDIMENT CONTRL PLAN FOR LOTS 1 THRU 33 MUST BE SUBMITTED AND APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

LANDSCAPE LEGEND:
STREET TREES (F-85-...)
2-1/2" MIN. CALIPER MAPLE
@ 40' O/C
(BY EVERGREEN VALLEY ASSO.)

SITE ANALYSIS:

1. TOTAL NUMBER OF LOTS: 33
2. TOTAL AREA OF LOTS: 14.25 AC.±
3. TOTAL AREA TO BE DISTURBED: 9.45 AC.±
4. TOTAL IMPERVIOUS AREA: 2.48 AC.±
5. TOTAL AREA TO BE REVEGETATED: 6.97 AC±

OWNER:
EVERGREEN VALLEY ASSOCIATES
5501 TWIN KNOLLS ROAD SUITE 105
COLUMBIA, MARYLAND
TELEPHONE: 730-1810

DEVELOPER:
RYAN HOMES, INC.
14440 CHERRY LANE COURT
SUITE 215
LAUREL, MARYLAND 20707
TELEPHONE. 498-4300

FISHER, COLLINS & CARTER, INC.
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8388 COURT AVE.
ELLICOTT CITY, MD. 21043
(301) 461-2855

ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 1/10/86

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND 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 NATURAL RESOURCES 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 1/10/86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE 1-16-85

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

DISTRICT — HOWARD SOIL CONSERVATION DISTRICT — DATE 1/16/86

APPROVED: OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 1-24-86

ACTING CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-24-86

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

HEALTH OFFICER — DATE 1-23-86

APPROVED: DEPARTMENT OF PUBLIC WORKS. FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

DIRECTOR, PUBLIC WORKS — DATE 1-17-86

CHIEF, BUREAU OF ENGINEERING — DATE 1-17-86

SITE DEVELOPMENT PLAN

TWIN OAKS

LOTS 1 THRU 33

TAX MAP 41 P/O PARCEL
6TH ELECTION DISTRICT HOWARD CO., MD.
SCALE 1"=30' AUGUST 20, 1985

REVISED DECEMBER 31, 1985

SHEET 3 OF 4

SDP 86-50

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA 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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE.

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 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 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1½ 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 SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:

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

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2½ BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 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 1½ 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 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

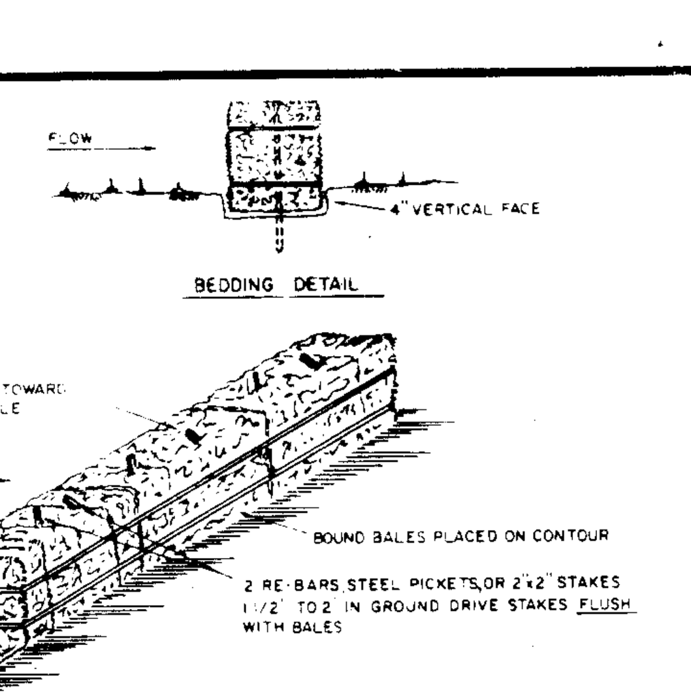
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT CONTROL NOTES:

1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (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.
6) 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.
7) SITE ANALYSIS:

TOTAL AREA OF SITE	21.3	ACRES
AREA DISTURBED	9.5	ACRES
AREA TO BE ROOFED OR PAVED	2.5	ACRES
AREA TO BE VEGETATIVELY STABILIZED	7.0	ACRES
TOTAL CUT	14,000	CU.YDS.
TOTAL FILL	14,000	CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	BALANCED SITE	

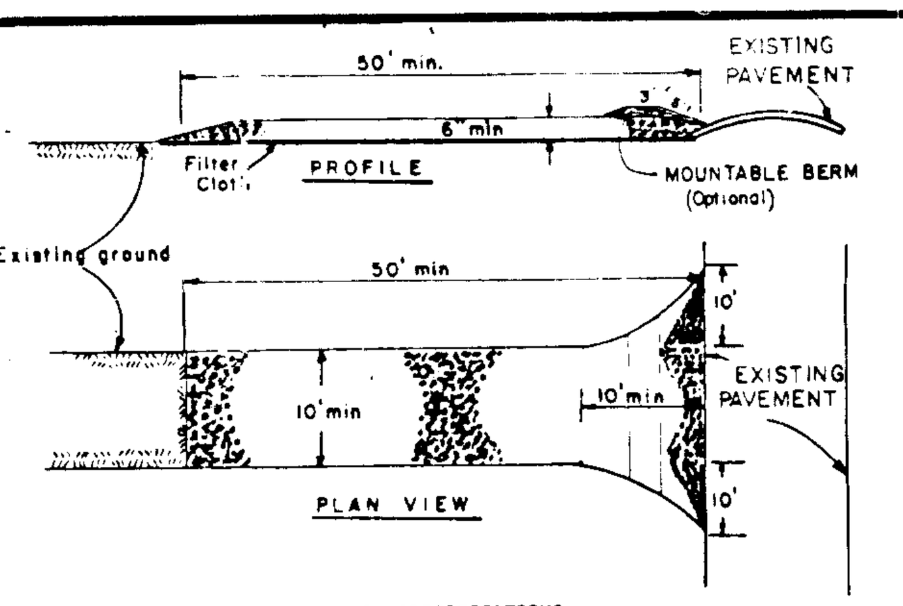
8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.



CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR 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.

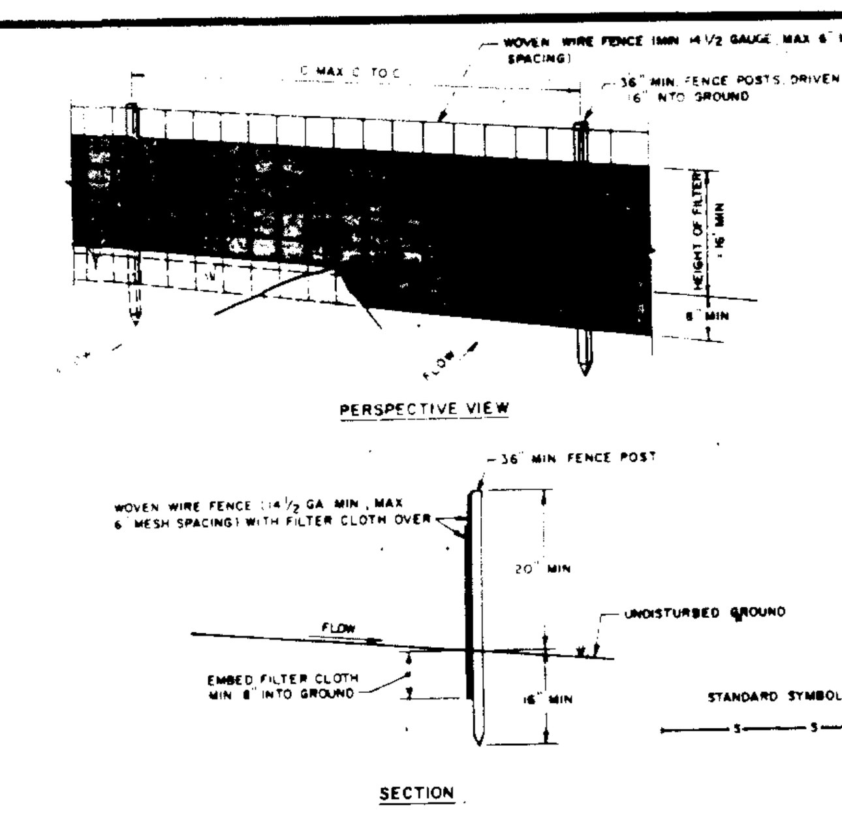
STRAW BALE DIKE
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



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 TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

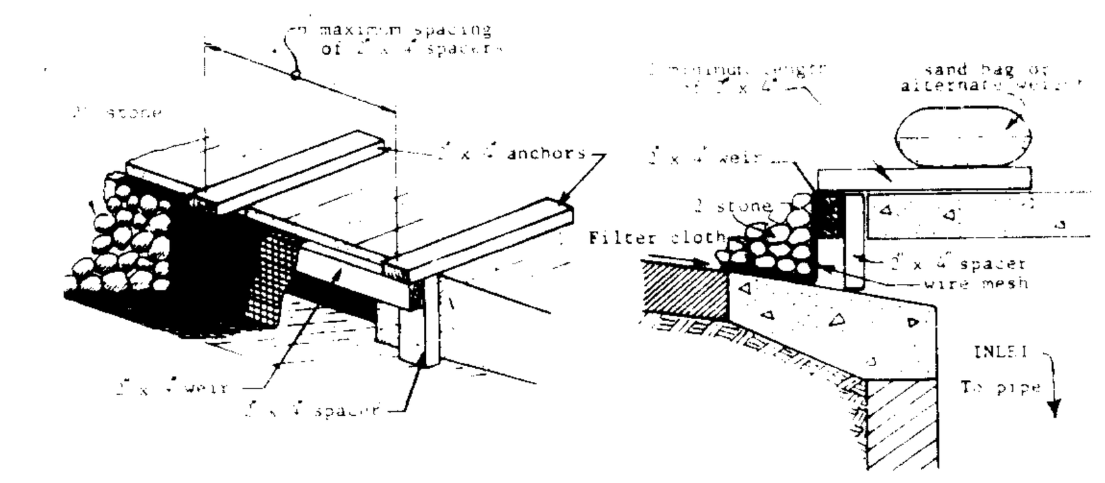
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14. GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

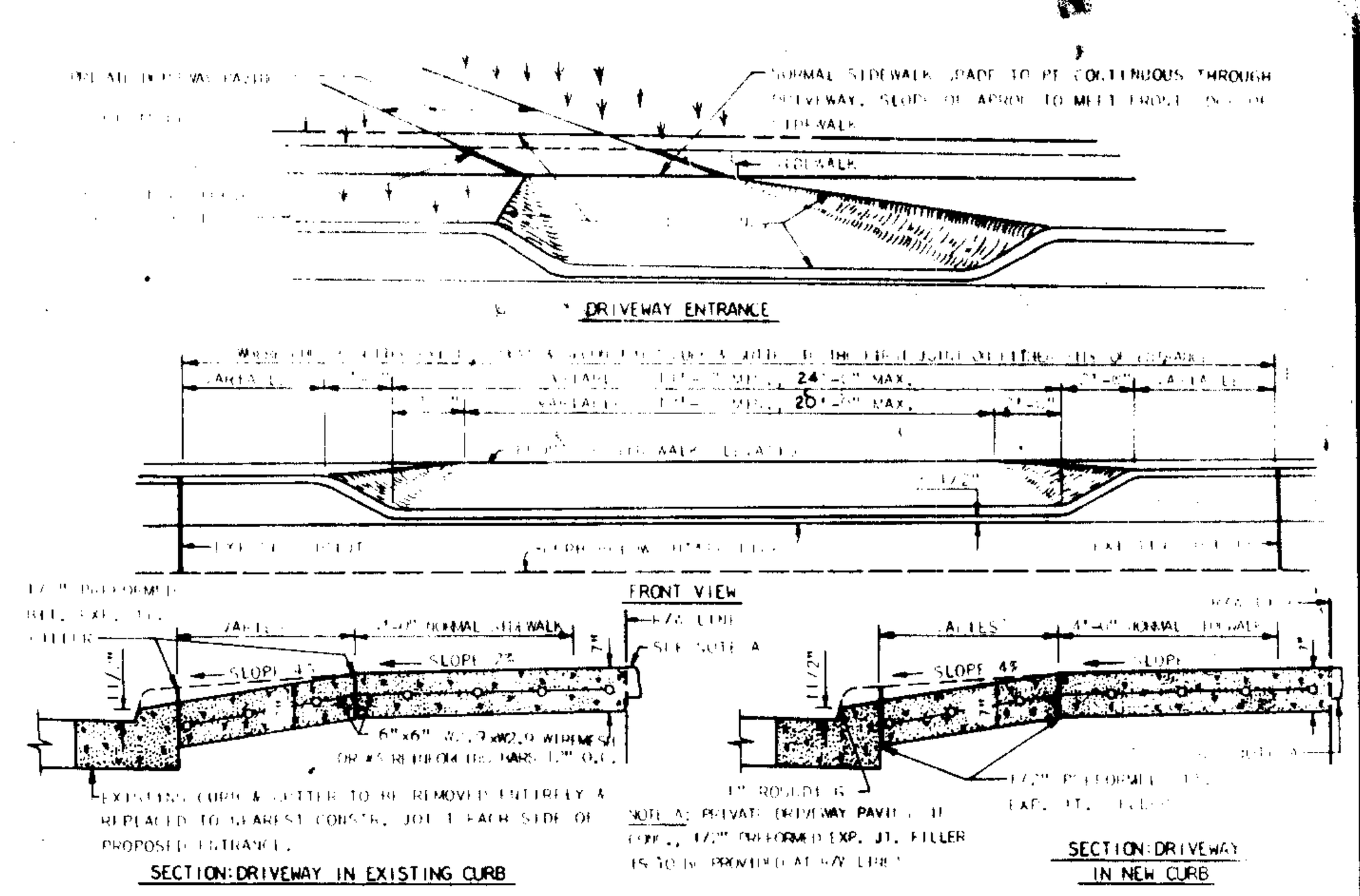
SILT FENCE
NOT TO SCALE



Curb Inlet Protection.

1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
3. Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

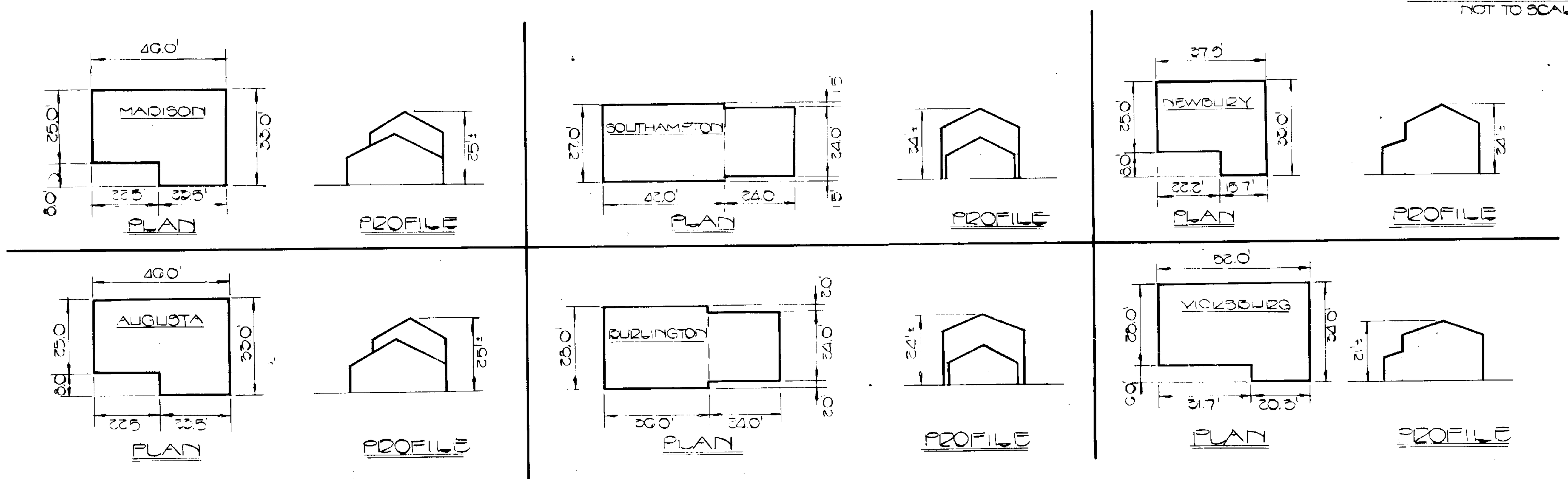
INLET PROTECTION
NOT TO SCALE



RESIDENTIAL DRIVEWAY ENTRANCE
NOT TO SCALE

CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING PERMIT. INSPECT EXISTING SEDIMENT BASIN AND MAKE ANY NECESSARY REPAIRS OR MAINTENANCE TO THE BASIN PRIOR TO BEGINNING ANY WORK SHOWN HEREON.
2. CONSTRUCT STONE CONSTRUCTION ENTRANCE FOR LOTS.
3. INSTALL STRAW BALE DIKE OR SILT FENCE ON LOTS.
4. CLEAR AND GRUB HOUSE SITES TO SUBGRADE.
5. EXCAVATE FOR FOUNDATIONS AND BEGIN HOUSE CONSTRUCTION.
6. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
7. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
8. THE SEDIMENT BASIN SHALL BE DEWATERED BY PUMPING. THE SEDIMENT FROM THE TRAP SHALL BE PLACED UP-GRADE FROM THE SEDIMENT BASIN IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE SEDIMENT BASIN.
9. REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
10. FINE GRADE LOTS AND STABILIZE INSTALL DRIVEWAYS AND SIDEWALKS.
11. REMOVE STRAW BALE DIKE OR SILT FENCE AND STABILIZE.
12. STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.



TYPICAL HOUSE PLAN
NOT TO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-27-85

OWNER:
EVERGREEN VALLEY ASSOCIATES
5501 TWIN KNOLLS ROAD-SUITE 105
COLUMBIA, MARYLAND 21045
TELEPHONE: 730-0810

DEVELOPER:
RYAN HOMES, INC.
14440 CHERRY LANE COURT
SUITE 215
LAUREL, MARYLAND 20707
TELEPHONE: 498-4300

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
(301) 461-2855

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.

SIGNATURE OF ENGINEER — DATE 1/10/86

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY"

SIGNATURE OF DEVELOPER — DATE 1/10/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
U.S. SOIL CONSERVATION SERVICE — DATE 1-16-86

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED
DISTRICT — DATE 1/16/86
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 1-24-86
ACTING CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-24-86

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HEALTH OFFICER — DATE 1-23-86

APPROVED: DEPARTMENT OF PUBLIC WORKS. FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
DIRECTOR, PUBLIC WORKS — DATE 1-17-86
CHIEF, BUREAU OF ENGINEERING — DATE 1-17-86

SUBDIVISION				SECTION/AREA		LOT NOS
TWIN OAKS				—		1-50
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST	CENSUS TR.	
6460	7,8,23,24	R20	41	6TH	6060	
WATER CODE	E-17		SEWER CODE	6450000		

NOTES / DETAILS
TWIN OAKS
LOTS 1 THRU 50

TAX MAP 41 — P/O PARCELS 7, 10, 300
6TH ELECTION DIST — HOWARD CO., MD.
SCALE 1" = 50' — AUGUST 20, 1985

REVISED DECEMBER 31, 1985
SHEET 4 OF 4

S.D.P. 86-50