

THE REQUIREMENTS OF SECTION 9-106, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1986 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

Arthur E. Muegge 9/4/01
 ARTHUR E. MUEGGE No. 10751 DATE

Joseph H. Necker, Jr. 9/15/01
 BY: JOSEPH H. NECKER, JR., V.P. DATE

TOTAL TABULATION THIS SHEET	TOTALS
TOTAL NUMBER OF LOTS & PARCELS TO BE RECORDED:	
BUILDABLE LOTS	7
BUILDABLE PARCELS	0
OPEN SPACE (O.S. LOT 37 COUNTED ON SHEET B)	2
PRESERVATION PARCELS	0
TOTAL AREA OF LOTS & PARCELS TO BE RECORDED:	
BUILDABLE LOTS	1.697 Ac. ±
BUILDABLE PARCELS	0.000 Ac.
OPEN SPACE	1.407 Ac. ±
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING WIDENING STRIPS:	1.587 Ac. ±
TOTAL AREA OF THIS SHEET TO BE RECORDED:	4.691 Ac. ±

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
*1-180	3003.89'	132.52'	86.27'	N 10°34'02" W	132.51'	2°31'40"
102-103	10106.61'	119.17'	59.59'	S 69°45'52" E	119.17'	0°40'32"
103-104	21233.97'	167.13'	83.56'	S 69°52'37" E	167.13'	0°27'03"
107-108	672.00'	20.55'	10.28'	N 15°02'46" E	20.55'	1°45'08"
110-111	130.00'	38.07'	19.17'	N 75°21'15" W	37.94'	16°46'48"
112-113	170.00'	165.53'	89.99'	N 55°51'00" W	159.07'	55°47'19"
114-115	130.00'	128.29'	69.92'	N 00°18'58" E	123.15'	56°32'37"
132-133	130.00'	26.02'	13.05'	N 68°07'43" E	25.98'	11°28'03"
140-141	90.00'	159.94'	110.78'	S 22°57'12" W	139.71'	101°49'05"
142-143	130.00'	126.58'	68.81'	S 55°51'00" E	121.64'	55°47'19"
144-145	170.00'	49.79'	25.07'	S 75°21'15" E	49.61'	16°46'48"
147-148	140.00'	168.99'	96.51'	N 72°18'10" E	158.92'	69°09'37"
148-190	140.00'	16.26'	8.14'	N 76°26'36" W	16.25'	6°39'09"
148-190	140.00'	152.73'	84.97'	S 68°58'35" W	145.27'	62°30'28"
172-173	320.00'	69.48'	34.86'	N 73°29'30" W	69.32'	12°26'09"
174-175	190.00'	158.69'	84.30'	S 61°38'58" W	154.12'	47°51'13"
176-177	728.00'	45.61'	22.81'	S 15°44'33" W	45.60'	3°35'22"
182-191	225.00'	65.49'	32.98'	S 01°34'21" E	65.26'	16°40'38"

*SEE BOUNDARY CERTIFICATION ON PLAT 1 OF B.

GENERAL NOTES

CONTINUED FROM SHEET ONE:

14. SEE PLANNING AND ZONING FILES P-01-16, S-00-12, NP-00-07, NP-01-34 & NP-01-99.

15. THE NOISE STUDY FOR THIS PROJECT WAS PREPARED BY CENTURY ENGINEERS DATED MARCH 1999.

16. THE METLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY DAFT MCCUNE & WALKER, INC.

17. STORMWATER MANAGEMENT FOR THE DEVELOPMENT INCLUDING FUTURE DEVELOPMENT OF PARCEL A IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND DEPARTMENT OF ENVIRONMENT STORMWATER MANAGEMENT MANUAL. PORTIONS OF OPEN SPACE LOTS 35, 36 & 39 ARE BEING USED AS NATURAL AREA CONSERVATION CREDIT AREAS. TO RECEIVE THE CREDIT, THE PROPOSED CONSERVATION AREA:

a.) SHALL NOT BE DISTURBED DURING PROJECT CONSTRUCTION (E.G., CLEARED OR GRADED) EXCEPT FOR TEMPORARY IMPACTS ASSOCIATED WITH INCIDENTAL UTILITY CONSTRUCTION OR MITIGATION AND AFFORESTATION PROJECTS.

b.) SHALL BE PROTECTED BY HAVING THE LIMITS OF DISTURBANCE CLEARLY SHOWN ON ALL CONSTRUCTION DRAWINGS AND DELIMITED IN THE FIELD EXCEPT AS PROVIDED FOR ABOVE.

c.) SHALL BE LOCATED WITHIN AN ACCEPTABLE CONSERVATION EASEMENT OR OTHER ENFORCEABLE INSTRUMENT THAT ENSURES PERPETUAL PROTECTION OF THE PROPOSED AREA. THE EASEMENT MUST CLEARLY SPECIFY HOW THE NATURAL AREA VEGETATION SHALL BE MANAGED AND BOUNDARIES WILL BE MARKED (NOTE: MANAGED TURF (E.G., PLAYGROUNDS, REGULARLY MAINTAINED OPEN AREAS) IS NOT AN ACCEPTABLE FORM OF VEGETATION MANAGEMENT), AND

d.) SHALL BE LOCATED ON THE DEVELOPED PROJECT.

A CENTRAL PRIVATELY MAINTAINED STORMWATER NET POND IS BEING USED TO PROVIDE THE WATER QUALITY AND CHANNEL PROTECTION VOLUMES FOR THIS DEVELOPMENT.

18. DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAT FOR WATER, SEWER, STORM DRAINAGE, OTHER PUBLIC UTILITIES AND FOREST CONSERVATION, ANY AND ALL CONVEYANCES OF AFORESAID LOTS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOT(S). DEVELOPER SHALL EXECUTE AND DELIVER A DEED FOR THE EASEMENTS HEREIN RESERVED TO HOWARD COUNTY, WITH A METES AND BOUNDS DESCRIPTION OF THE FOREST CONSERVATION AREA, UPON COMPLETION OF THE PUBLIC UTILITIES AND THEIR ACCEPTANCE BY HOWARD COUNTY, AND IN CASE OF A FOREST CONSERVATION EASEMENT (S), UPON COMPLETION OF DEVELOPER'S OBLIGATION UNDER THE FOREST CONSERVATION INSTALLATION AND MAINTENANCE AGREEMENT EXECUTED BY THE DEVELOPER AND THE COUNTY, AND THE RELEASE OF THE DEVELOPER'S SURETY POSTED WITH SAID AGREEMENT, THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED (S) OF EASEMENT IN THE LAND RECORDS OF HOWARD COUNTY.

SEE SHEETS FOR CONTINUATION OF GENERAL NOTES.

GENERAL NOTES

19. NO CLEARINGS, GRADINGS OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED METLANDS, STREAMS, OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS, UNLESS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING AS PART OF A MAJORITY PETITION APPLICATION, OR IN ACCORDANCE WITH SECTION 16.166.(c) OF THE SUBDIVISION REGULATIONS.

20. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARINGS GRADINGS OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

21. LANDSCAPING FOR LOTS 1 THRU 34 IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN ON FILE WITH THIS PLAT IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

22. THIS PLAT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY RETENTION OF FOREST RESOURCES. THE TOTAL ACREAGE OF RETENTION IS 25.699 ACRES. FOREST CONSERVATION EASEMENT AREAS AND SHOWN HEREON ARE FOR RETENTION, AREAS E-6 ARE FOR FUTURE REFORESTATION AND TOTAL 2.192 ACRES.

23. THERE ARE 55 TENTATIVE HOUSING UNIT ALLOCATIONS RESERVED FOR THE SPA UNITS ON BULK PARCEL A, AS SHOWN ON S-00-12, AND IN ACCORDANCE WITH SECTION 16.1106.h.2.(11) OF THE SUBDIVISION REGULATIONS. THE DEADLINE TO SUBMIT A PRELIMINARY PLAN FOR THAT PARCEL WILL BE ESTABLISHED WHEN IT IS RECORDED ON THIS PLAT UNLESS A PRELIMINARY PLAN IS SUBMITTED BY THE DEADLINE ESTABLISHED WHEN S-00-12 WAS ENGAGED.

24. FOREST CONSERVATION FOR FUTURE REFORESTATION WILL BE UTILIZED AT A LATER DATE TO SATISFY OUR SITE REQUIREMENTS.

LEGEND

- - DENOTES 4" X 4" X 36" CONC. MONUMENT SET
- - DENOTES 5/8" Ø REBAR AND CAP SET
- 303.2 - ELEVATION OF 100YR FLOOD PLAIN

OWNER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (410-992-6000)

RIEMER MUEGGE

a division of
Patton Harris Rust & Associates, pc
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21045
 tel 410.997.8800 fax 410.997.9282

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

Dina L. Montgomery 9-27-01
 HOWARD COUNTY HEALTH OFFICER M.L. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Arthur E. Muegge 9/16/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Joseph H. Necker, Jr. 10/12/01
 DIRECTOR DATE

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 18, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 5284 AT FOLIO 330, HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.



Arthur E. Muegge 9/4/01
 ARTHUR E. MUEGGE No. 10751 DATE

OWNER'S CERTIFICATE

WE, THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, BY JOSEPH H. NECKER, JR., VICE PRESIDENT AND CYNTHIA L. STEWART, ASST. SECRETARY, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTED THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS: (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREET AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; AND (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.

WITNESS MY/OUR HANDS THIS 5TH DAY OF SEPTEMBER 2001.

Joseph H. Necker, Jr.
 JOSEPH H. NECKER, JR., VICE PRESIDENT
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Cynthia L. Stewart
 CYNTHIA L. STEWART, ASST. SECRETARY (ATTEST)

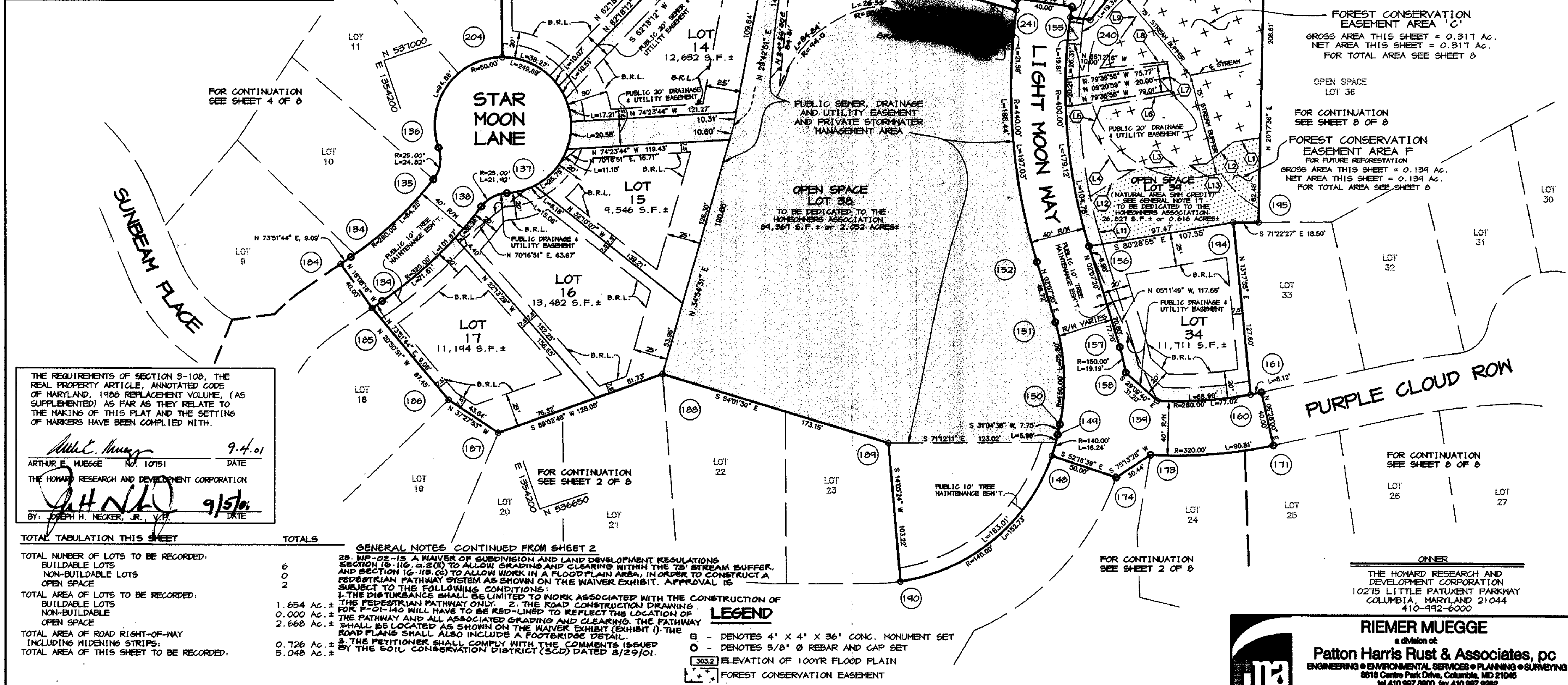
RECORDED AS PLAT NUMBER 14915
10-16-01 AMONG THE
 LAND RECORDS OF HOWARD COUNTY, MARYLAND.

EMERSON, SECTION 1, AREA 1
LOTS 1 THRU 34,
OPEN SPACE LOTS 35 THRU 39
AND PARCEL 'A'

F-01-16, S-00-12, NP-00-07, NP-01-34 & NP-01-99
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 47 PARCEL: P/O 037
 GRID Nos. 3, 8 & 9 ZONED: R-ED
 SCALE: 1" = 50' DATE: 08-31-01 SHEET 2 OF 8

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
134-135	280.00'	84.25'	42.44'	N 65°14'34" E	83.93'	17°14'20"
135-136	25.00'	24.82'	13.54'	N 28°10'43" E	23.82'	56°53'21"
136-137	50.00'	249.89'	37.60'	S 37°12'25" E	60.10'	286°07'05"
136-204	50.00'	94.86'	89.71'	N 54°05'07" E	81.26'	108°42'08"
137-138	25.00'	21.92'	11.72'	S 80°44'15" W	21.22'	50°13'44"
138-139	320.00'	101.87'	51.37'	S 64°44'34" W	101.44'	18°14'21"
148-149	140.00'	16.24'	8.13'	N 34°24'00" E	16.23'	6°38'43"
148-190	140.00'	152.73'	84.97'	S 68°58'35" E	145.27'	62°30'28"
149-190	140.00'	168.97'	86.50'	S 85°39'14" W	158.90'	69°09'11"
150-151	150.00'	75.80'	38.73'	N 16°35'59" E	75.00'	28°57'18"
152-153	440.00'	197.03'	100.20'	N 14°57'03" E	195.39'	25°39'27"
152-241	440.00'	188.03'	95.47'	N 14°21'54" E	186.61'	24°29'08"
153-241	440.00'	9.00'	4.50'	S 27°11'37" W	9.00'	01°10'19"
154-155	400.00'	8.00'	4.00'	S 27°12'24" W	8.00'	01°08'45"
154-156	400.00'	179.12'	91.09'	N 14°57'03" E	177.63'	25°39'27"
155-156	400.00'	171.12'	86.89'	S 14°22'41" W	169.82'	24°30'42"
157-158	150.00'	19.19'	9.61'	S 05°47'11" W	19.17'	7°19'42"
159-160	280.00'	68.90'	34.82'	S 74°49'20" E	68.73'	14°05'56"
160-161	280.00'	77.02'	38.78'	S 75°39'11" E	76.78'	15°45'38"
160-161	280.00'	8.12'	4.06'	S 82°42'09" E	8.12'	1°39'42"
171-173	320.00'	90.81'	45.71'	N 75°24'13" W	90.51'	16°15'35"

FOREST RETENTION AREA LINE CHART		
LINE	BEARING	LENGTH
L1	N79°38'11"W	20.06
L2	S69°27'15"W	25.38
L3	N75°33'46"W	65.49
L4	N12°41'14"W	36.51
L5	N41°34'05"E	17.46
L6	S81°03'55"E	53.52
L7	N09°20'59"E	23.77
L8	N76°33'05"W	49.78
L9	N53°47'09"E	74.36
L10	N88°04'46"E	79.73
L11	R=390.00' L=36.52'	
	CHD.= N04°36'52"E 36.51'	
L12	N77°11'15"E	37.58
L13	S75°33'46"E	53.96



THE REQUIREMENTS OF SECTION 9-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1986 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

Arthur E. Muegge 9.4.01
 ARTHUR E. MUEGGE No. 10751 DATE

Joseph H. Necker, Jr. 9/5/01
 BY: JOSEPH H. NECKER, JR., V.P. DATE

TOTAL TABULATION THIS SHEET	TOTALS
TOTAL NUMBER OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	6
NON-BUILDABLE LOTS	0
OPEN SPACE	2
TOTAL AREA OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	1.654 Ac. ±
NON-BUILDABLE	0.000 Ac. ±
OPEN SPACE	2.668 Ac. ±
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING MIDDENING STRIPS:	0.726 Ac. ±
TOTAL AREA OF THIS SHEET TO BE RECORDED:	5.048 Ac. ±

GENERAL NOTES CONTINUED FROM SHEET 2

23. WP-02-15 IS A WAIVER OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SECTION 16-116.02(h) TO ALLOW GRADING AND CLEARING WITHIN THE 75' STREAM BUFFER, AND SECTION 16-115.02 TO ALLOW WORK IN A FLOODPLAIN AREA, IN ORDER TO CONSTRUCT A PEDESTRIAN PATHWAY SYSTEM AS SHOWN ON THE WAIVER EXHIBIT. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE DISTURBANCE SHALL BE LIMITED TO WORK ASSOCIATED WITH THE CONSTRUCTION OF THE PEDESTRIAN PATHWAY ONLY. 2. THE ROAD CONSTRUCTION DRAWING FOR F-01-140 WILL HAVE TO BE RED-LINED TO REFLECT THE LOCATION OF THE PATHWAY AND ALL ASSOCIATED GRADING AND CLEARING. THE PATHWAY SHALL BE LOCATED AS SHOWN ON THE WAIVER EXHIBIT (EXHIBIT I). THE ROAD PLANS SHALL ALSO INCLUDE A FOOTBRIDGE DETAIL. 3. THE PETITIONER SHALL COMPLY WITH THE COMMENTS ISSUED BY THE SOIL CONSERVATION DISTRICT (SCD) DATED 8/29/01.

LEGEND

□ - DENOTES 4" X 4" X 36" CONC. MONUMENT SET
 ○ - DENOTES 5/8" Ø REBAR AND CAP SET
 [303.2] ELEVATION OF 100YR FLOOD PLAIN
 [] FOREST CONSERVATION EASEMENT

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

Don L. Mather 9.27.01
 DON L. MATHER, OFFICER MA DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Arthur E. Muegge 9/10/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Joseph H. Necker, Jr. 10/2/01
 DIRECTOR DATE

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 10, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY MARYLAND IN LIBER 5284 AT FOLIO 330. HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

Arthur E. Muegge 9.4.01
 ARTHUR E. MUEGGE No. 10751 DATE

OWNER'S CERTIFICATE

WE, THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, BY JOSEPH H. NECKER, JR., VICE PRESIDENT AND CYNTHIA L. STEWART, ASST. SECRETARY, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTED THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS: (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT SHOWN THEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREET AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; AND (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.

WITNESS MY/OUR HANDS THIS 5th DAY OF SEPTEMBER 2001.

Joseph H. Necker, Jr.
 JOSEPH H. NECKER, JR., VICE PRESIDENT
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Cynthia L. Stewart
 CYNTHIA L. STEWART, ASST. SECRETARY (ATTEST)

RECORDED AS PLAT NUMBER 14995
 10-16-01 AMONG THE
 LAND RECORDS OF HOWARD COUNTY, MARYLAND.

**EMERSON, SECTION 1, AREA 1
 LOTS 1 THRU 34,
 OPEN SPACE LOTS 35 THRU 39
 AND PARCEL 'A'**

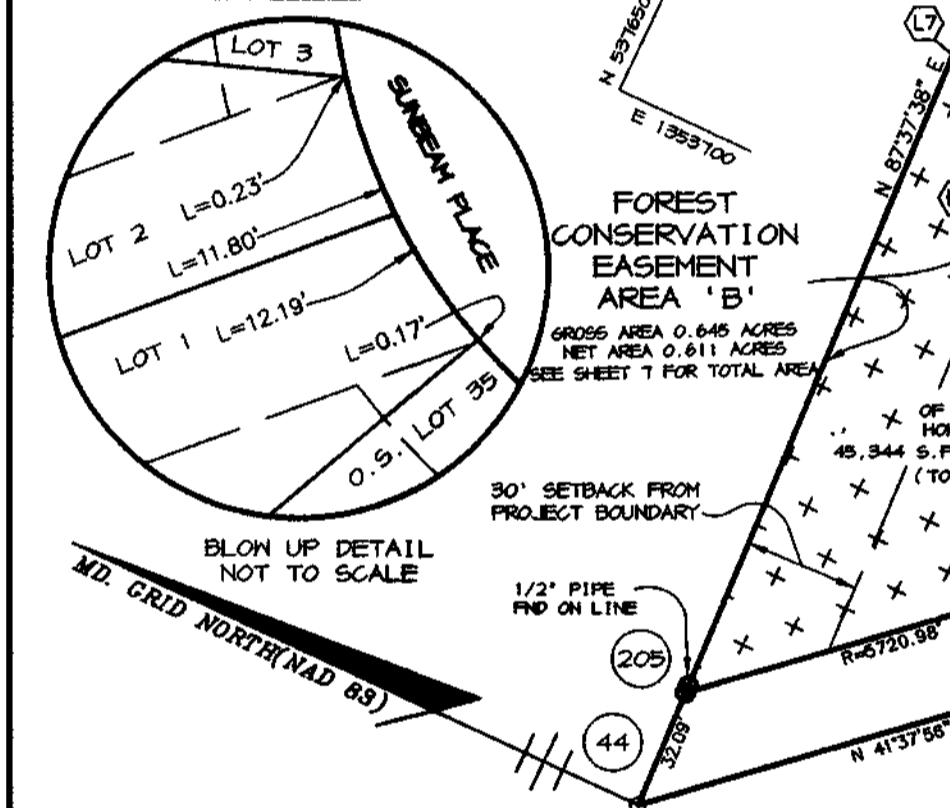
F-01-16, S-00-12, WP-00-87, WP-01-39 & WP-01-99
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 47 PARCEL: P/O 837
 GRID Nos. 3, 8 & 9 ZONED: R-ED
 SCALE: 1" = 50' DATE: 08-31-01 SHEET 3 OF 8
 F:\PROJECT\99212\PLATS\PLAT3.DWG

RIEMER MUEGGE
 a division of
Patton Harris Rust & Associates, pc
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8616 Centre Park Drive, Columbia, MD 21046
 tel 410.997.8800 fax 410.997.8882



CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
116-117	135.00'	92.48'	48.14'	N 22°48'23" W	90.68'	39°15'00"
118-119	120.00'	69.35'	35.67'	N 19°44'11" W	68.38'	33°06'36"
120-121	195.00'	122.20'	63.18'	N 18°20'18" W	120.21'	35°54'23"
122-123	100.00'	25.89'	13.02'	N 07°48'10" W	25.82'	14°50'06"
123-124	50.00'	235.07'	50.55'	S 60°32'09" E	71.10'	268°22'09"
124-125	25.00'	32.52'	19.02'	S 36°52'54" W	30.28'	74°32'02"
126-127	155.00'	97.14'	50.22'	S 18°20'18" E	95.55'	35°54'23"
128-129	160.00'	92.46'	47.56'	S 19°44'11" E	91.18'	33°06'36"
130-131	95.00'	60.64'	31.40'	S 21°28'09" E	59.62'	36°34'31"
132-133	130.00'	28.02'	13.05'	N 68°07'43" E	25.98'	11°28'03"
134-135	280.00'	84.25'	42.44'	N 65°14'34" E	83.93'	17°14'20"
135-136	25.00'	24.82'	13.54'	N 28°10'43" E	23.82'	56°53'21"
136-204	50.00'	94.86'	89.71'	N 54°05'07" E	81.26'	108°42'08"
180-183	3003.89'	371.36'	185.92'	N 15°22'22" W	371.13'	7°05'00"
205-206	5720.98'	139.25'	69.63'	S 42°00'18" E	139.24'	1°23'40"
206-207	1365.29'	103.42'	51.74'	S 40°31'55" E	103.40'	4°20'25"
207-208	498.63'	77.39'	38.77'	S 33°54'56" E	77.31'	8°53'34"
208-209	1150.73'	62.80'	31.31'	S 27°54'39" E	62.59'	3°07'00"
209-210	936.50'	123.85'	62.02'	S 22°33'49" E	123.76'	7°34'39"
210-211	2531.37'	334.66'	167.57'	S 15°01'02" E	334.42'	7°30'56"

LINE	BEARING	LENGTH	LINE	BEARING	LENGTH
L1	N76°54'36"W	61.72'	L24	S58°45'01"W	29.96'
L2	S88°47'05"W	39.71'	L25	N35°44'11"W	53.38'
L3	N48°33'30"W	86.34'	L26	N49°14'32"E	117.84'
L4	N87°37'46"W	38.68'	L27	N41°19'55"E	37.75'
L5	S85°58'49"W	58.58'	L28	S80°26'18"E	20.64'
L6	N86°38'37"W	93.70'	L29	N85°57'09"E	25.91'
L7	S84°12'02"W	33.93'	L30	N47°59'22"E	24.93'
L8	S31°41'25"W	15.11'	L31	N21°21'23"E	21.35'
L9	S21°07'00"W	42.09'	L32	N11°29'15"W	21.39'
L10	S14°33'56"E	61.10'	L33	N35°42'54"W	25.03'
L11	S06°56'59"E	45.36'	L34	N39°05'48"E	89.86'
L12	S30°49'49"W	18.13'	L35	N71°49'40"E	17.81'
L13	N32°30'29"E	30.71'	L36	S86°07'43"E	14.38'
L14	S03°36'03"W	23.29'	L37	S18°18'14"E	33.98'
L15	S48°10'31"W	39.67'	L38	S26°28'48"E	34.57'
L16	S28°48'08"W	52.69'	L39	S34°50'46"E	89.36'
L17	S66°40'48"W	35.47'	L40	S34°08'35"W	24.92'
L18	S13°07'24"W	24.17'	L41	S19°36'38"E	28.66'
L19	S59°33'30"W	56.04'	L42	N86°28'32"E	16.90'
L20	S37°13'03"W	65.89'	L43	S01°21'44"E	40.90'
L21	N10°28'09"W	41.78'	L44	S55°59'38"W	41.28'
L22	N59°37'14"E	28.77'	L45	S10°28'09"W	30.44'
L23	N30°58'27"W	26.82'			



TOTAL TABULATION THIS SHEET	TOTALS
TOTAL NUMBER OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	12
NON-BUILDABLE LOTS	0
OPEN SPACE (O.S. LOT 36 COUNTED ON SHEET 5 & O.S. LOT 35 COUNTED ON SHEET 2)	0
PRESERVATION PARCELS	0
TOTAL AREA OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	3.341 Ac. ±
NON-BUILDABLE	0.000 Ac.
OPEN SPACE	3.071 Ac. ±
PRESERVATION PARCELS	0.000 Ac.
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING WIDENING STRIPS:	1.104 Ac. ±
TOTAL AREA OF THIS SHEET TO BE RECORDED:	7.522 Ac. ±

THE REQUIREMENTS OF SECTION 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

Arthur E. Muegge 9/4/01
 ARTHUR E. MUEGGE No. 10751 DATE
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
Joseph H. Necker, Jr. 9/5/01
 BY: JOSEPH H. NECKER, JR., V.P. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
Dina L. Matlock 9-27-01
 HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Arthur E. Muegge 9/19/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Joseph H. Necker, Jr. 10/12/01
 DIRECTOR DATE

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 18, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 5284 AT FOLIO 330, HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

STATE OF MARYLAND
 ARTHUR E. MUEGGE No. 10751
 PROFESSIONAL SURVEYOR
 9/4/01 DATE

OWNER'S CERTIFICATE

WE, THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, BY JOSEPH H. NECKER, JR., VICE PRESIDENT AND CYNTHIA L. STEWART, ASST. SECRETARY, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTED THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS: (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT SHOWN THEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREET AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; AND (3) THE RIGHT TO REQUIRE DEDICATION OF MATERIALS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.

WITNESS MY/OUR HANDS THIS 5th DAY OF SEPTEMBER 2001.

Joseph H. Necker, Jr.
 JOSEPH H. NECKER, JR., VICE PRESIDENT
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Cynthia L. Stewart
 CYNTHIA L. STEWART, ASST. SECRETARY (ATTEST)

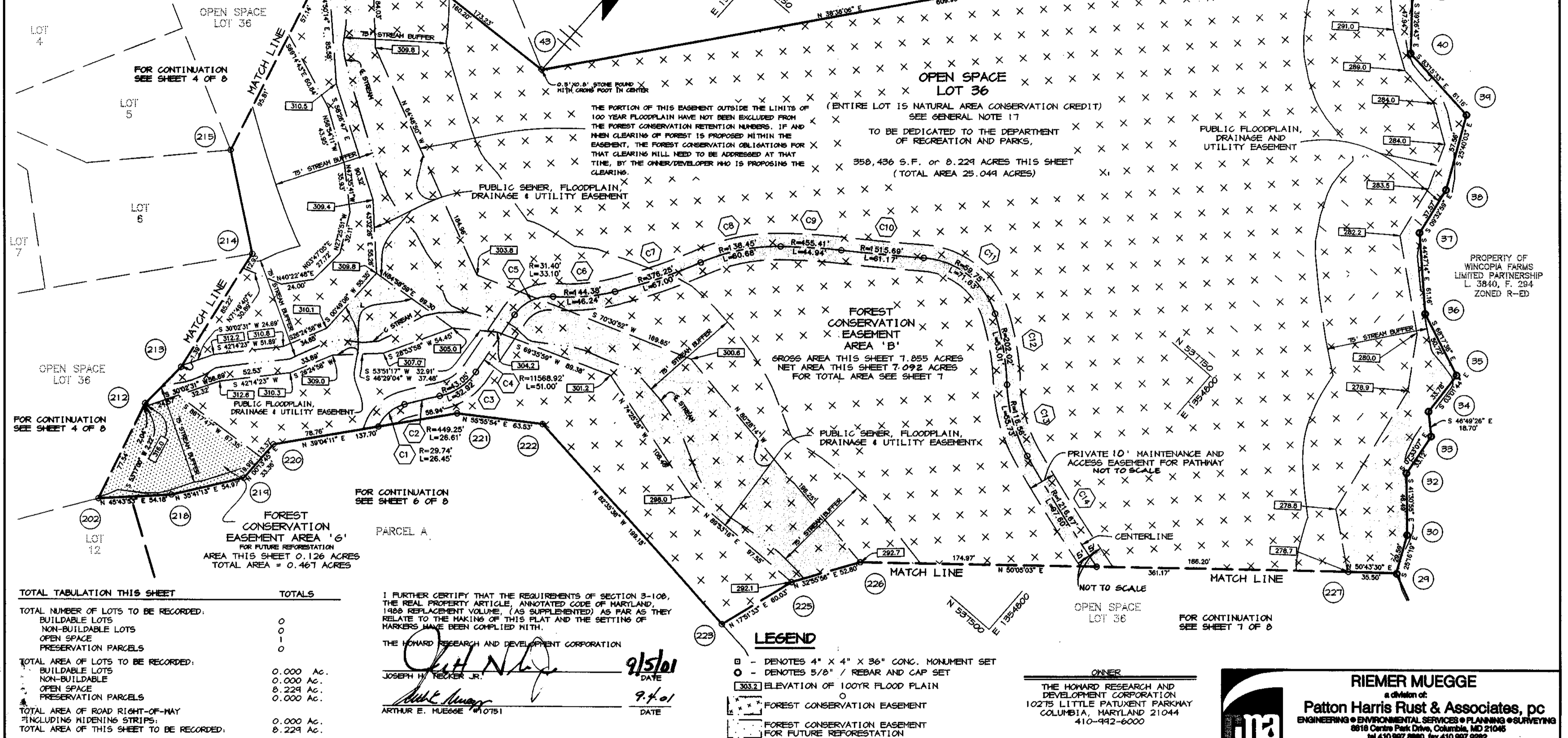
RIEMER MUEGGE
 a division of:
Patton Harris Rust & Associates, pc
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8616 Centre Park Drive, Columbia, MD 21046
 tel 410.997.9900 fax 410.997.9922

RECORDED AS PLAT NUMBER 14997
10-16-01 AMONG THE
 LAND RECORDS OF HOWARD COUNTY, MARYLAND.

EMERSON, SECTION 1, AREA 1
LOTS 1 THRU 34,
OPEN SPACE LOTS 35 THRU 39
AND PARCEL 'A'

P-01-16, S-00-12, NP-00-87, NP-01-39 & NP-01-99
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 47 PARCEL: P/O 837
 GRID Nos. 3, 8 & 9 ZONED: R-ED
 SCALE: 1" = 50' DATE: 08-31-01 SHEET 4 OF 8
 F:\PROJECT\99212\PLATS\PLAT4.DWG

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C1	29.74	26.45	14.17	N08°09'17"E	25.58	50°56'49"
C2	449.25	26.61	13.31	N35°19'29"E	26.60	3°23'36"
C3	43.05	32.92	17.31	N15°06'53"E	32.13	43°48'49"
C4	11568.92	51.00	25.50	N08°55'06"W	51.00	0°15'09"
C5	31.40	33.10	18.27	N23°08'53"E	31.59	60°23'07"
C6	144.38	46.24	23.32	N44°09'55"E	46.04	18°21'03"
C7	376.25	67.00	33.59	N29°53'19"E	66.91	10°12'09"
C8	138.45	60.68	30.84	N37°20'38"E	60.20	25°06'48"
C9	455.41	44.94	22.49	N52°43'40"E	44.93	5°39'16"
C10	1515.69	61.17	30.59	N54°23'56"E	61.17	2°18'45"
C11	59.75	71.63	40.83	N67°35'25"E	67.42	68°41'44"
C12	202.02	53.01	26.66	S50°32'40"E	52.86	15°02'06"
C13	116.56	55.73	28.41	S56°43'25"E	55.20	27°23'38"
C14	1216.67	97.60	48.83	S72°43'07"E	97.57	4°35'46"



TOTAL TABULATION THIS SHEET	TOTALS
TOTAL NUMBER OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	0
NON-BUILDABLE LOTS	0
OPEN SPACE	1
PRESERVATION PARCELS	0
TOTAL AREA OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	0.000 Ac.
NON-BUILDABLE LOTS	0.000 Ac.
OPEN SPACE	8.229 Ac.
PRESERVATION PARCELS	0.000 Ac.
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING HIDDENING STRIPS:	0.000 Ac.
TOTAL AREA OF THIS SHEET TO BE RECORDED:	8.229 Ac.

I FURTHER CERTIFY THAT THE REQUIREMENTS OF SECTION 3-106, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1986 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 JOSEPH H. NECKER, JR. 9/15/01 DATE
 ARTHUR E. MUEGGE 9/4/01 DATE

- LEGEND**
- - DENOTES 4" X 4" X 36" CONG. MONUMENT SET
 - - DENOTES 5/8" / REBAR AND CAP SET
 - 303.2 ELEVATION OF 100YR FLOOD PLAIN
 - ✕ ✕ ✕ FOREST CONSERVATION EASEMENT
 - ▨ FOREST CONSERVATION EASEMENT FOR FUTURE REFORESTATION

OWNER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 410-942-6000

RIEMER MUEGGE
 a division of:
Patton Harris Rust & Associates, pc
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 tel 410.987.8880 fax 410.987.8282

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

Dina L. Matlock 9/27/01
 HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Arthur E. Muegge 9/19/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Joseph H. Necker, Jr. 10/12/01
 DIRECTOR DATE

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 18, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 5284 AT FOLIO 930. HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

ARTHUR E. MUEGGE 9/4/01 DATE
 STATE OF MARYLAND PROFESSIONAL SURVEYOR

OWNER'S CERTIFICATE

WE, THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, BY JOSEPH H. NECKER, JR., VICE PRESIDENT AND CYNTHIA L. STEWART, ASST. SECRETARY, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTED THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS: (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT SHOWN THEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREET AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; AND (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.

WITNESS MY/OUR HANDS THIS 5th DAY OF SEPTEMBER 2001.

Joseph H. Necker, Jr. JOSEPH H. NECKER, JR., VICE PRESIDENT
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Cynthia L. Stewart CYNTHIA L. STEWART, ASST. SECRETARY (ATTEST)

RECORDED AS PLAT NUMBER 14998
 10-16-01 AMONG THE
 LAND RECORDS OF HOWARD COUNTY, MARYLAND.

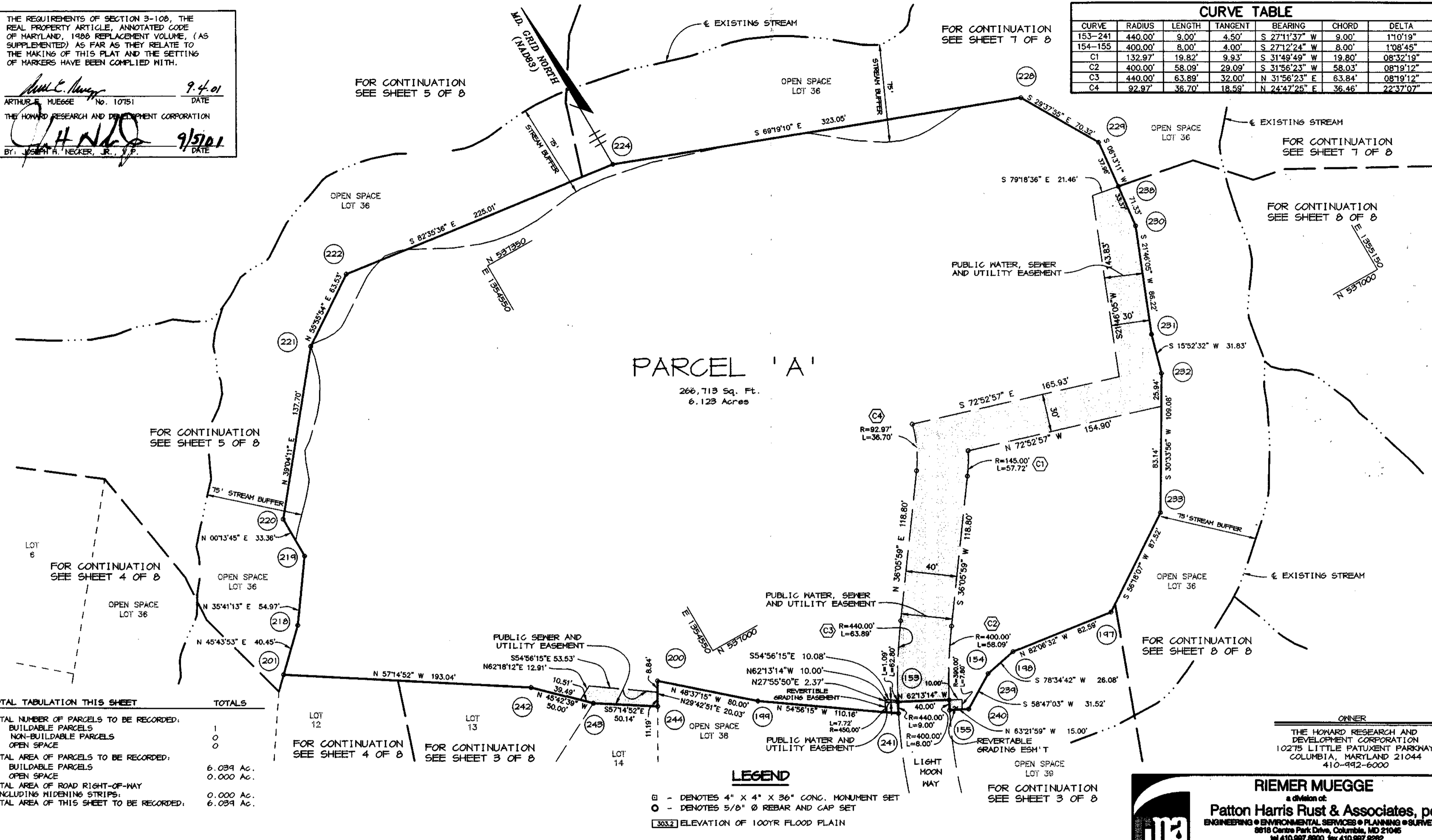
EMERSON, SECTION 1, AREA 1
 LOTS 1 THRU 34,
 OPEN SPACE LOTS 35 THRU 39
 AND PARCEL 'A'

P-01-16, S-00-12, WP-00-87, WP-01-39 & WP-01-99
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 47 PARCEL: P/O 837
 GRID Nos. 3, 8 & 9 ZONED: R-ED
 SCALE: 1" = 50' DATE: 08-31-01 SHEET 5 OF 8
 F:\PROJECT\99212\PLATS\PLATS.DWG

THE REQUIREMENTS OF SECTION 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

Arthur E. Muegge 9.4.01
 ARTHUR E. MUEGGE No. 10751 DATE
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
Joseph H. Necker, Jr. 9/19/01
 BY: JOSEPH H. NECKER, JR., P.E. DATE


CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
153-241	440.00'	9.00'	4.50'	S 27°11'37" W	9.00'	1°10'19"
154-155	400.00'	8.00'	4.00'	S 27°12'24" W	8.00'	1°08'45"
C1	132.97'	19.82'	9.93'	S 31°49'49" W	19.80'	08°32'19"
C2	400.00'	58.09'	29.09'	S 31°56'23" W	58.03'	08°19'12"
C3	440.00'	63.89'	32.00'	N 31°56'23" E	63.84'	08°19'12"
C4	92.97'	36.70'	18.59'	N 24°47'26" E	36.46'	22°37'07"



TOTAL TABULATION THIS SHEET	TOTALS
TOTAL NUMBER OF PARCELS TO BE RECORDED:	
BUILDABLE PARCELS	1
NON-BUILDABLE PARCELS	0
OPEN SPACE	0
TOTAL AREA OF PARCELS TO BE RECORDED:	
BUILDABLE PARCELS	6.039 AC.
OPEN SPACE	0.000 AC.
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING WIDENING STRIPS:	0.000 AC.
TOTAL AREA OF THIS SHEET TO BE RECORDED:	6.039 AC.

LEGEND
 □ - DENOTES 4" X 4" X 3/8" CONC. MONUMENT SET
 ○ - DENOTES 5/8" Ø REBAR AND CAP SET
 [303.2] ELEVATION OF 100YR FLOOD PLAIN

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
Rina M. M... S.S. 9.27.01
 HOWARD COUNTY HEALTH OFFICER DATE
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Arthur E. Muegge 9/19/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Joseph H. Necker, Jr. 10/12/01
 DIRECTOR DATE

SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 18, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 5289 AT FOLIO 330, HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

 ARTHUR E. MUEGGE 10751 9.4.01 DATE

OWNER'S CERTIFICATE
 ME, THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, BY JOSEPH H. NECKER, JR., VICE PRESIDENT AND CYNTHIA L. STEWART, ASST. SECRETARY, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTED THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS, (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT SHOWN THEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREET AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; AND (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.
 WITNESS MY/OUR HANDS THIS 5th DAY OF SEPTEMBER 2001.
Joseph H. Necker, Jr. JOSEPH H. NECKER, JR., VICE PRESIDENT
Cynthia L. Stewart CYNTHIA L. STEWART, ASST. SECRETARY (ATTEST)

RIEMER MUEGGE
 a division of:
Patton Harris Rust & Associates, pc
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8515 Centre Park Drive, Columbia, MD 21046
 tel 410.997.8900 fax 410.997.8292

RECORDED AS PLAT NUMBER 14999
 10-16-01 AMONG THE
 LAND RECORDS OF HOWARD COUNTY, MARYLAND.
EMERSON, SECTION 1, AREA 1
LOTS 1 THRU 34,
OPEN SPACE LOTS 35 THRU 39
AND PARCEL 'A'
 P-01-16, S-00-12, NP-00-87, NP-01-39 & NP-01-99
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 47 PARCEL: P/O 837
 GRID Nos. 3, 8 & 9 ZONED: R-ED
 SCALE: 1" = 50' DATE: 08-31-01 SHEET 6 OF 8
 F:\PROJECT\99212\PLATS\PLAT6.DWG

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C1	410.00'	143.16'	72.31'	N 73°29'51" E	142.43'	20°00'20"
C2	240.00'	75.18'	47.35'	N 74°39'23" E	92.92'	22°19'24"
C3	1216.67'	60.77'	30.39'	S 76°26'52" E	60.77'	2°51'43"
C4	1396.56'	204.53'	102.45'	S 73°41'00" E	204.34'	8°23'27"
C5	740.33'	24.80'	12.40'	S 70°26'51" E	24.80'	1°55'10"
C6	740.33'	192.81'	96.95'	S 78°52'05" E	192.26'	14°55'18"
C7	502.24'	45.10'	22.57'	S 83°45'23" E	45.09'	5°08'43"
C8	34.40'	26.07'	13.70'	S 59°28'29" E	25.45'	43°25'06"
C9	14.50'	27.76'	20.86'	S 17°04'34" W	23.71'	109°41'00"
C10	316.68'	77.97'	39.18'	S 64°51'51" W	77.78'	14°08'27"
C11	90.62'	61.72'	32.11'	S 77°19'24" W	60.54'	39°01'33"
C12	371.36'	97.75'	49.16'	N 75°37'22" W	97.47'	15°04'54"
C13	60.01'	93.72'	59.47'	N 23°20'36" W	84.48'	89°28'40"
C14	1178.08'	23.90'	11.95'	N 21°58'37" E	23.90'	1°09'45"

THE REQUIREMENTS OF SECTION 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

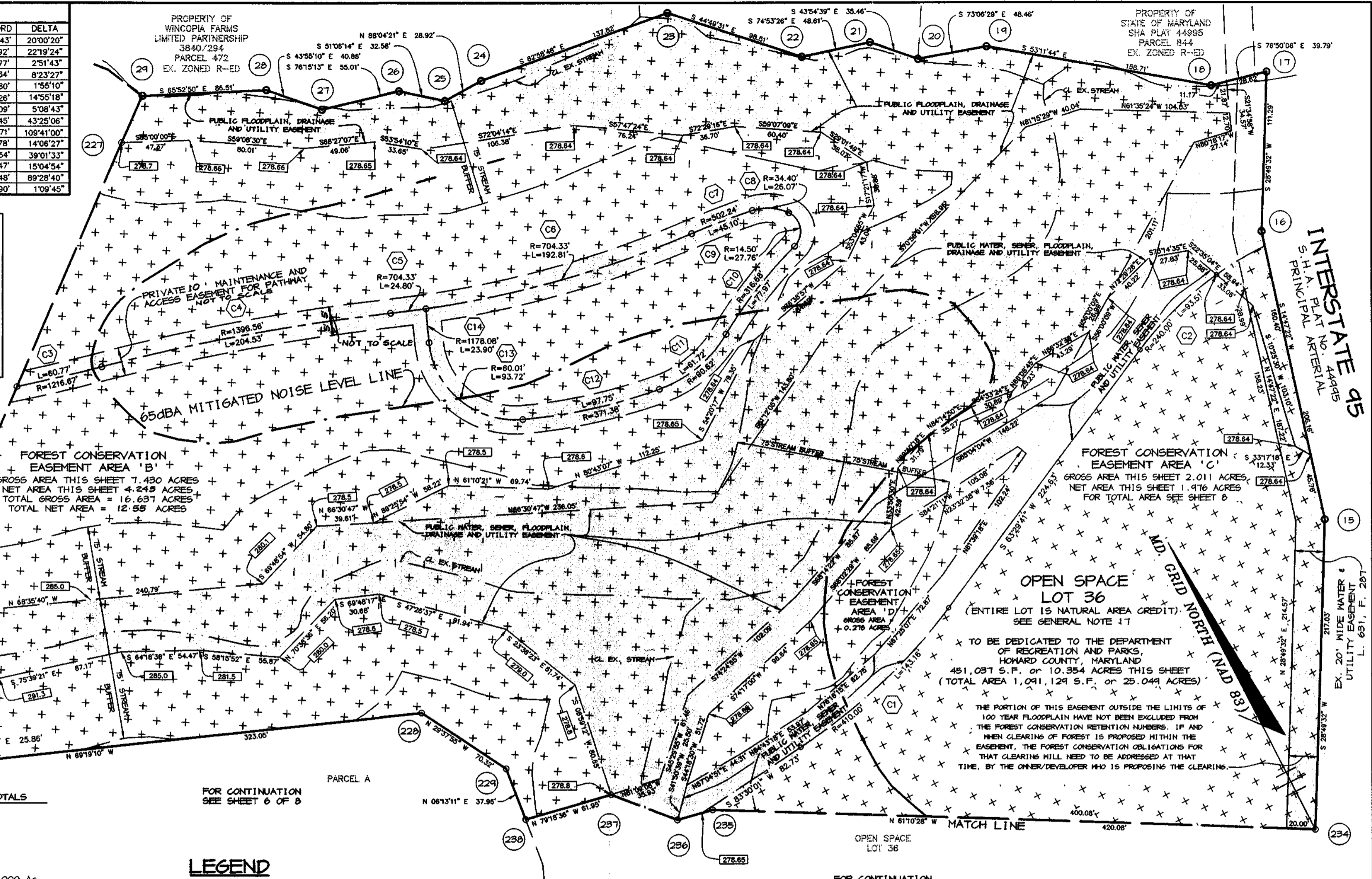
Arthur E. Muegge 9/4/01
 ARTHUR E. MUEGGE No. 10751 DATE

Joseph H. Necker, Jr. 9/15/01
 BY: JOSEPH H. NECKER, JR., V.P. DATE

FOR CONTINUATION SEE SHEET 5 OF 8

OPEN SPACE LOT 36

THE PORTION OF THIS EASEMENT OUTSIDE THE LIMITS OF 100 YEAR FLOODPLAIN HAVE NOT BEEN EXCLUDED FROM THE FOREST CONSERVATION RETENTION NUMBERS. IF AND WHEN CLEARING OF FOREST IS PROPOSED WITHIN THE EASEMENT, THE FOREST CONSERVATION OBLIGATIONS FOR THAT CLEARING WILL NEED TO BE ADDRESSED AT THAT TIME, BY THE OWNER/DEVELOPER WHO IS PROPOSING THE CLEARINGS.



TOTAL TABULATION THIS SHEET	TOTALS
TOTAL NUMBER OF PARCELS TO BE RECORDED:	
BUILDABLE PARCELS	0
NON-BUILDABLE PARCELS	0
OPEN SPACE	0
PRESERVATION PARCELS	0
TOTAL AREA OF PARCELS TO BE RECORDED:	
BUILDABLE PARCELS	0.000 Ac.
NON-BUILDABLE PARCELS	0.000 Ac.
OPEN SPACE (OPEN SPACE LOT 36 COUNTED ON SHEET 5)	10.354 Ac.
PRESERVATION PARCELS	0.000 Ac.
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING WIDENING STRIPS:	0.000 Ac.
TOTAL AREA OF THIS SHEET TO BE RECORDED:	10.354 Ac.

LEGEND

□ - DENOTES 4" X 4" X 36" CONC. MONUMENT SET

○ - DENOTES 5/8" Ø REBAR AND CAP SET

303.2' ELEVATION OF 100YR FLOOD PLAIN

— 65 dBA NOISE LINE

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

Devin L. Matlock 9-27-01
 HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Arthur E. Muegge 9/17/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Joseph H. Necker, Jr. 10/12/01
 DIRECTOR DATE



SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 18, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 5284 AT FOLIO 330. HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

Arthur E. Muegge 9-4-01
 ARTHUR E. MUEGGE No. 10751 DATE

OWNER'S CERTIFICATE

WE, THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, BY JOSEPH H. NECKER, JR., VICE PRESIDENT AND CYNTHIA L. STEWART, ASST. SECRETARY, OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTED THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS: (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT SHOWN THEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREET AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE; AND (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHT-OF-WAYS.

WITNESS MY/OUR HANDS THIS 5TH DAY OF SEPTEMBER 2001.

Joseph H. Necker, Jr.
 JOSEPH H. NECKER, JR., VICE PRESIDENT
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Cynthia L. Stewart
 CYNTHIA L. STEWART, ASST. SECRETARY (ATTEST)

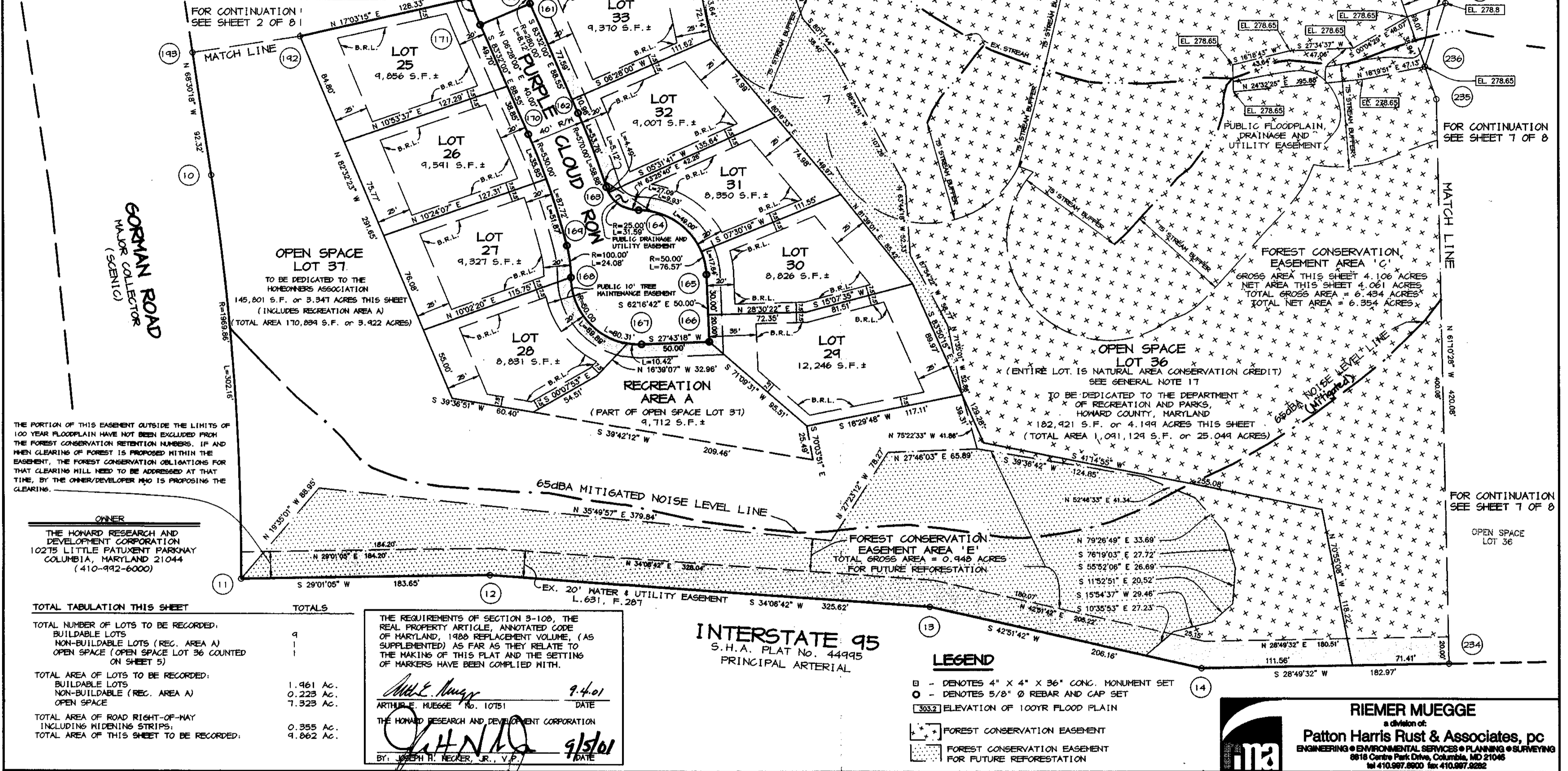
RECORDED AS PLAT NUMBER 15000
 10-16-01 AMONG THE
 LAND RECORDS OF HOWARD COUNTY, MARYLAND.

**EMERSON, SECTION 1, AREA 1
 LOTS 1 THRU 34,
 OPEN SPACE LOTS 35 THRU 39
 AND PARCEL 'A'**

P-01-16, S-00-12, NP-00-87, NP-01-39 & NP-01-99
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP No. 47 PARCEL: P/O 837
 GRID Nos. 3, 8 & 9 ZONED: R-ED
 SCALE: 1" = 50' DATE: 08-31-01 SHEET 7 OF 8
 F:\PROJECT\99212\PLATS\PLAT7.DWG

RIEMER MUEGGE
 a division of
Patton Harris Rust & Associates, pc
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21045
 tel 410.997.9800 fax 410.997.9222

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
160-161	280.00'	8.12'	4.06'	S 82°42'09" E	8.12'	1°39'42"
171-172	320.00'	21.36'	10.68'	N 81°37'18" W	21.35'	3°49'26"
162-163	570.00'	58.88'	29.47'	S 80°34'27" E	58.85'	5°55'07"
163-164	25.00'	31.59'	18.30'	N 66°10'49" E	29.53'	72°24'34"
164-165	50.00'	76.57'	48.07'	N 73°50'55" E	69.31'	87°44'46"
167-168	50.00'	80.31'	51.80'	S 73°44'03" W	71.95'	92°01'31"
168-169	100.00'	24.08'	12.10'	N 67°09'07" W	24.02'	13°47'51"
169-170	530.00'	87.72'	43.96'	N 78°47'31" W	87.62'	9°28'58"
10-11	1969.86'	302.16'	151.38'	N 64°06'38" W	301.87'	8°47'20"



THE PORTION OF THIS EASEMENT OUTSIDE THE LIMITS OF 100 YEAR FLOODPLAIN HAVE NOT BEEN EXCLUDED FROM THE FOREST CONSERVATION RETENTION NUMBERS. IF AND WHEN CLEARING OF FOREST IS PROPOSED WITHIN THE EASEMENT, THE FOREST CONSERVATION OBLIGATIONS FOR THAT CLEARING WILL NEED TO BE ADDRESSED AT THAT TIME, BY THE OWNER/DEVELOPER WHO IS PROPOSING THE CLEARING.

OWNER	TOTALS
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 (410-942-6000)	
TOTAL TABULATION THIS SHEET	
TOTAL NUMBER OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	9
NON-BUILDABLE LOTS (REC. AREA A)	1
OPEN SPACE (OPEN SPACE LOT 36 COUNTED ON SHEET 5)	1
TOTAL AREA OF LOTS TO BE RECORDED:	
BUILDABLE LOTS	1.961 Ac.
NON-BUILDABLE (REC. AREA A)	0.223 Ac.
OPEN SPACE	7.323 Ac.
TOTAL AREA OF ROAD RIGHT-OF-WAY INCLUDING WIDENING STRIPS:	0.355 Ac.
TOTAL AREA OF THIS SHEET TO BE RECORDED:	9.862 Ac.

THE REQUIREMENTS OF SECTION 3-100, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

Arthur E. Muegge 9/4/01
ARTHUR E. MUEGGE No. 10751 DATE

Joseph H. Necker, Jr. 9/5/01
BY: JOSEPH H. NECKER, JR., V.P. DATE

INTERSTATE 95
S.H.A. PLAT No. 44995
PRINCIPAL ARTERIAL

- LEGEND**
- - DENOTES 4" X 4" X 36" CONC. MONUMENT SET
 - - DENOTES 5/8" Ø REBAR AND CAP SET
 - 303.2 ELEVATION OF 100YR FLOOD PLAIN
 - ✕ - FOREST CONSERVATION EASEMENT
 - ✕ - FOREST CONSERVATION EASEMENT FOR FUTURE REFORESTATION

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8618 Centre Park Drive, Columbia, MD 21046
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APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

Diana J. McLaughlin 9-27-01
HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Michael J. ... 9/19/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Joseph H. Necker, Jr. 10/12/01
DIRECTOR DATE

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC. BY DEED DATED DECEMBER 18, 2000 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 5294 AT FOLIO 330, HRD LAND HOLDINGS, INC. THEREAFTER CHANGED ITS NAME TO THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION BY ARTICLES OF AMENDMENT FILED JANUARY 05, 2001, AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

Arthur E. Muegge 9/4/01
ARTHUR E. MUEGGE #10751 DATE

OWNER'S CERTIFICATE

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