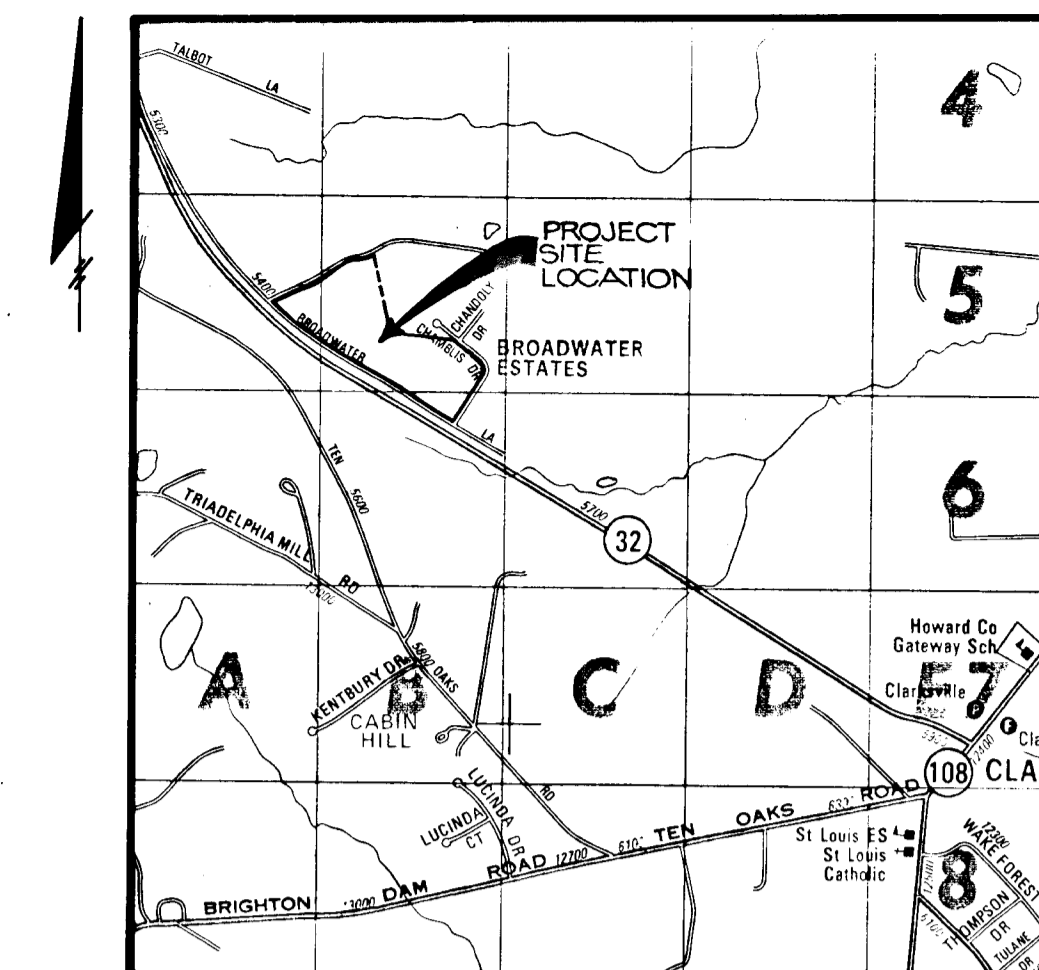


INDEX OF SHEET	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE BROADWATER LANE STA. 0+00 TO STA. 19+00
3	PLAN & PROFILE BROADWATER LANE STA. 0+00 TO STA. 24+42
4	GRADING & SEDIMENT CONTROL PLAN & DETAILS
5	DRAINAGE AREA MAP

COORDINATES		
NO.	NORTH	EAST
1004	505121.20	809225.05
1006	505727.77	810585.73
808	504620.12	810561.04
1010	504540.55	811711.54
1006	504581.25	811704.64
1012	505881.01	811403.77
1013	503777.57	811551.71
816	504640.77	807974.46

# ADAMS REACH SECTION ONE ROADWAYS AND STORM DRAINS 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

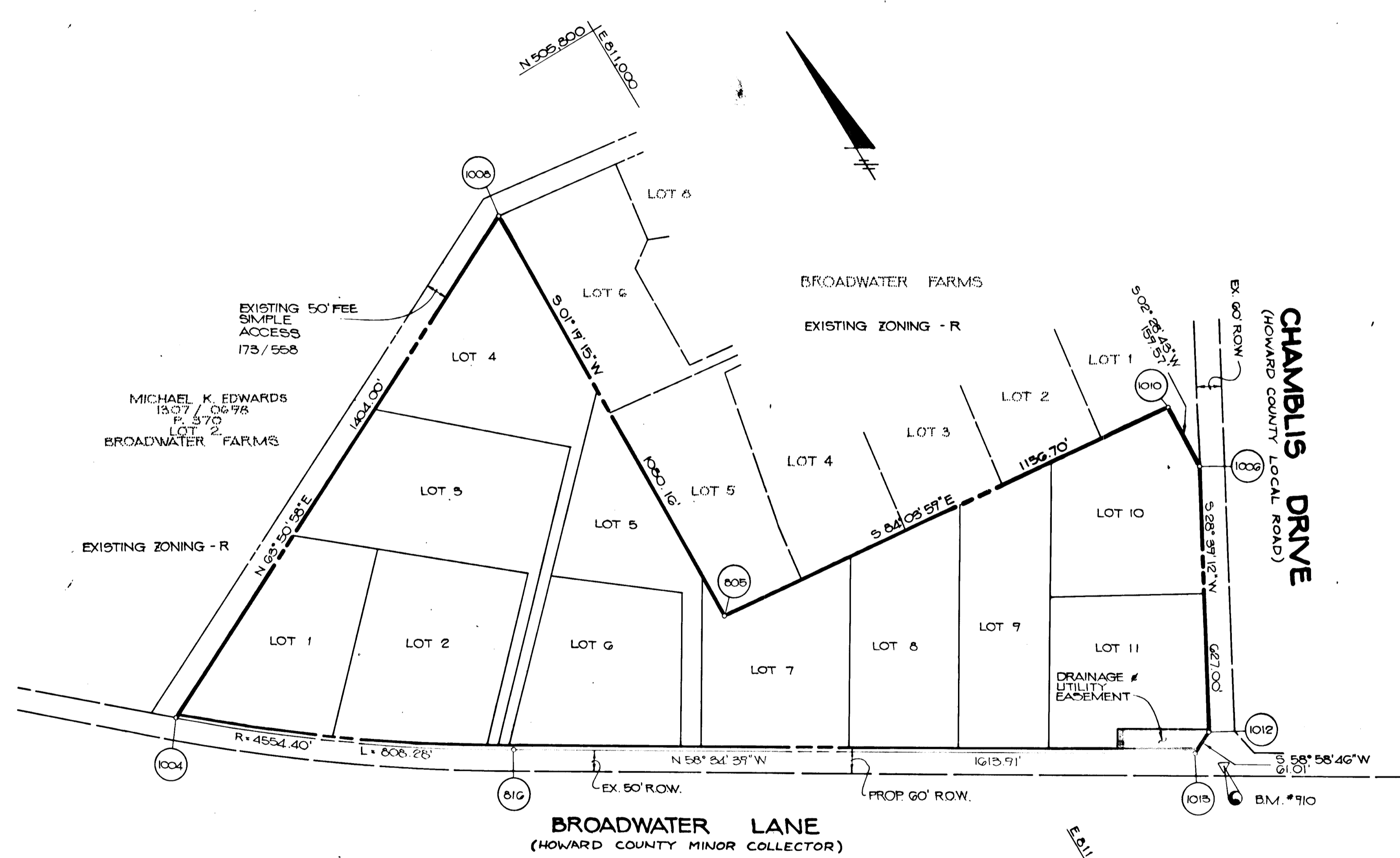


**VICINITY MAP**  
SCALE: 1" = 200'

- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  - APPROXIMATE LOCATION 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 OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
  - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK IN THESE DRAWINGS:
 

MISS UTILITY	1-800-257-7777
C&P TELEPHONE COMPANY	725-9976
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
  - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS.
  - STORM DRAIN BACKFILL WITHIN ROADWAYS, UNDER STRUCTURES AND FOR STORM DRAIN TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 1557.
  - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
  - ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
  - ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
  - ALL ELEVATIONS SHOWN ARE BASED ON U.S.C.S. MEAN SEA LEVEL DATUM, 1929.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
  - TOPO TAKEN FROM FIELD RUN SURVEY DATED OCTOBER, 1988.
  - SUBJECT PROPERTY ZONED R PER 8.2.85 COMPREHENSIVE ZONING PLAN.
  - INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1984 EDITION.
  - DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:
 

ALL 60' RIGHT OF WAYS 40 M.P.H.



**BENCHMARKS**

B.M. #513 500.03  
HOWARD COUNTY MON. #2735002  
CENTER OF MD. RTE. 32

B.M. #910 507.50  
RAILROAD SPIKE SET  
CENTER OF BROADWATER  
LANE & CHAMBLIS DRIVE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>[Signature]</i>	4-10-89 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	4/3/89 DATE
CHIEF, LAND DEVELOPMENT DIVISION	
<i>[Signature]</i>	4/6/89 DATE
CHIEF, BUREAU OF HIGHWAYS	
<i>[Signature]</i>	4/7/89 DATE
CHIEF, BUREAU OF ENGINEERING	
Q.27.01	REVISED PER RECLINE REVISIONS
DATE NO.	REVISION
OWNER / DEVELOPER	
BAC - MP DEVELOPMENT LIMITED PARTNERSHIP C/O MP ASSOCIATES 3701 NATIONAL DRIVE SUITE 100 BURTONSVILLE, MARYLAND 20866	
PROJECT 588-119, P.07-32	
<b>ADAMS REACH SECTION ONE</b>	
AREA TAX MAP 23 PARCEL 240 ZONED R 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
<b>TITLE SHEET</b>	
<b>THE RIEMER GROUP, INC.</b>	
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690	
3-16-89 DATE	DESIGNED BY: D.B.S.
	DRAWN BY: R.A.W.
	PROJECT NO: 52304
	DATE: JANUARY 6, 1989
	SCALE: AS SHOWN
<i>[Signature]</i> ARTHUR E. MUEGGE, #67371	DRAWING NO. 1 OF 5

**NOTE:**  
ARMY CORPS OF ENGINEERS PERMIT 401 & 404 ARE NOT REQUIRED FOR THE CONSTRUCTION WITHIN THE LIMIT OF DISTURBANCE AS SHOWN ON THIS SET OF DRAWINGS.

**PLAN**  
SCALE: 1" = 200'

LOT 2  
BROADWATER FARMS  
PLAT # 5287

LOT 1

LOT 2

LOT 3  
LOT 4

LOT 6

LOT 5

LOT 7

BROADWATER

LANE

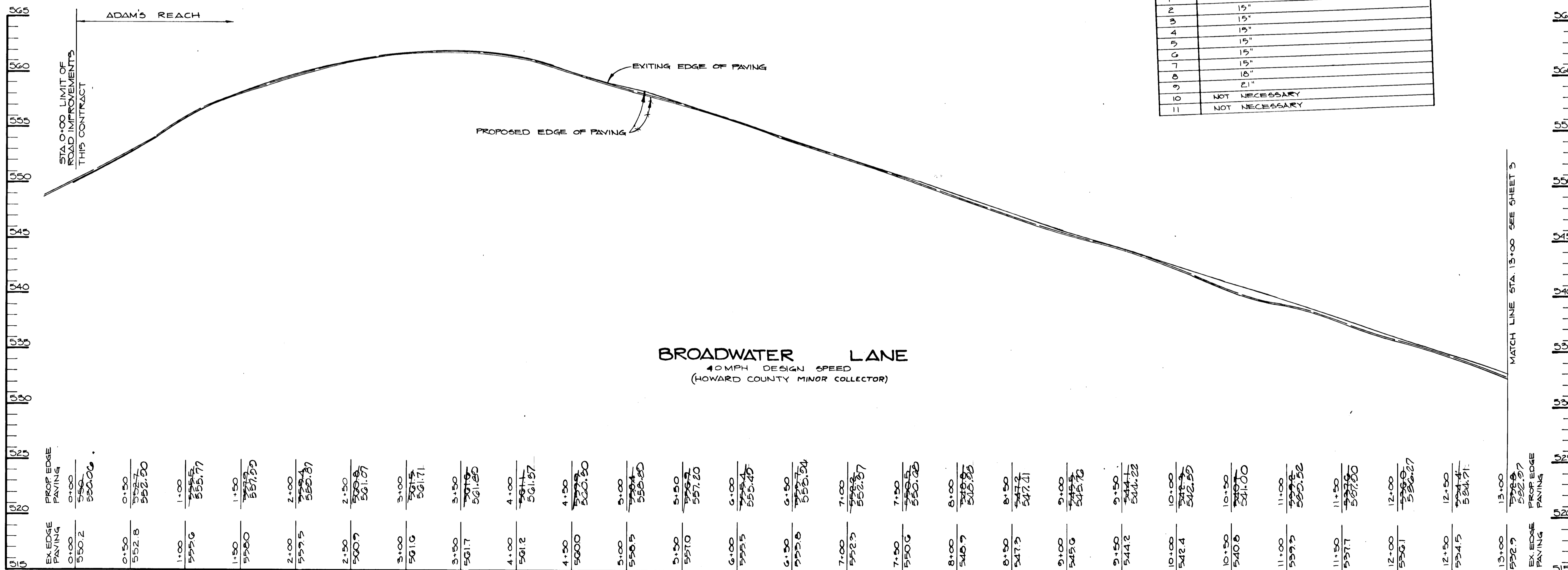
(HOWARD COUNTY MINOR COLLECTOR)

MARYLAND ROUTE  
INTERMEDIATE ARTERIAL DIVIDED  
S.R.C. PLATS # 29210 & 29211

32

PLAN  
1" = 50'

DRIVEWAY CULVERT SIZES	
LOT NO	CULVERT SIZE OCCMP
1	NOT NECESSARY
2	15"
3	15"
4	15"
5	15"
6	15"
7	15"
8	18"
9	21"
10	NOT NECESSARY
11	NOT NECESSARY



PROFILE  
SCALE: HORI. 1" = 50'  
VERT. 1" = 0'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Frank S. DeCough* 4-10-89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Paul M. Repp* 4/3/89  
Chief, Land Development Division  
*Brannan W. Woodard* 4/6/89  
Chief, Bureau of Highways  
*William S. Reid* 4/7/89  
Chief, Bureau of Engineering

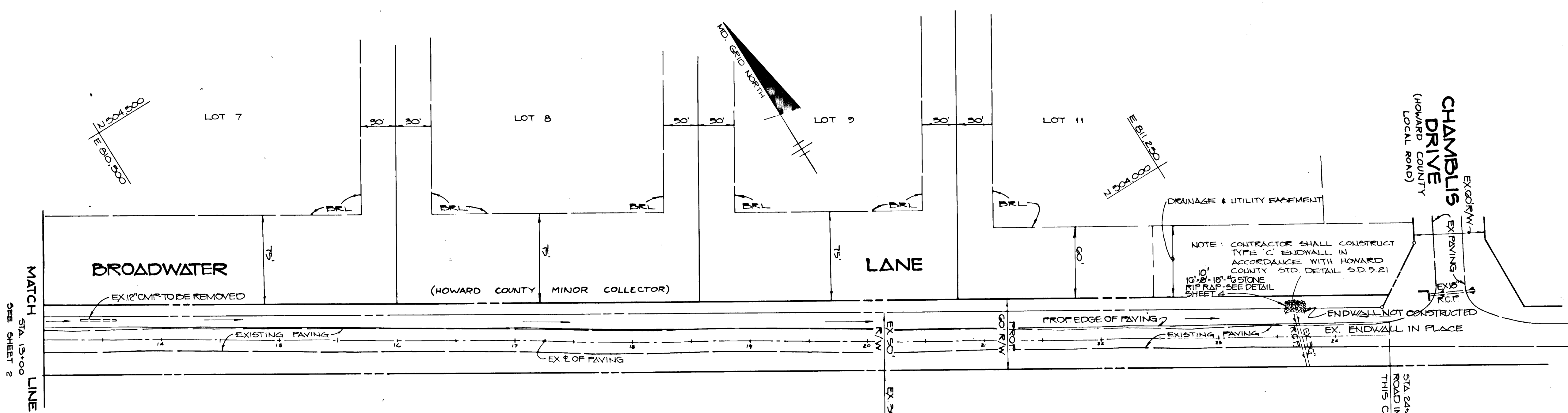
G 2701 1 REVISED PER REDLINE REVISIONS  
DATE NO REVISION  
OWNER/DEVELOPER  
BAC-MP DEVELOPMENT LIMITED PARTNERSHIP  
C/O MP ASSOCIATES  
3901 NATIONAL DRIVE SUITE 100  
BURTONSVILLE, MARYLAND 20866

PROJECT: 508-119 P89-32  
**ADAM S REACH**  
SECTION ONE 508-119  
AREA TAX MAP 28124 PARCEL 240 ZONED - R  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

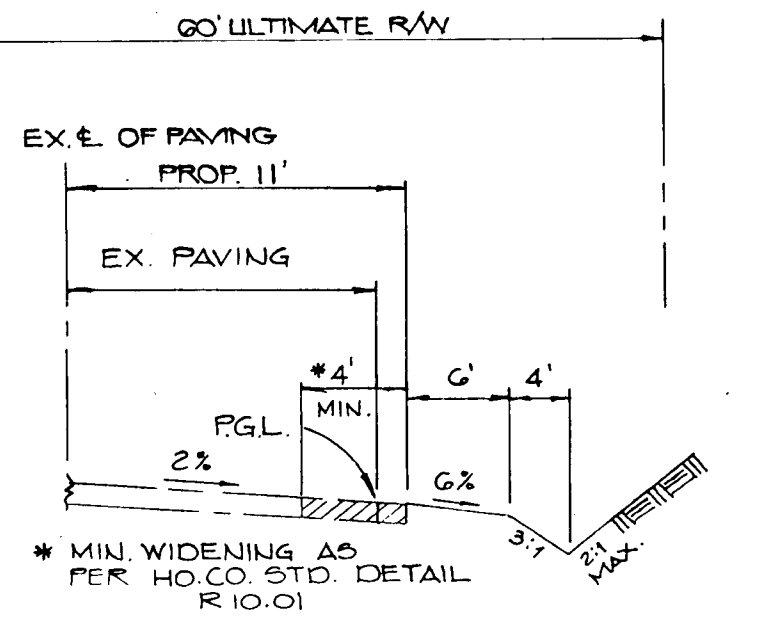
TITLE: PLAN & PROFILE  
**BROADWATER LANE**  
(STA. 0+00 TO STA. 13+00)

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

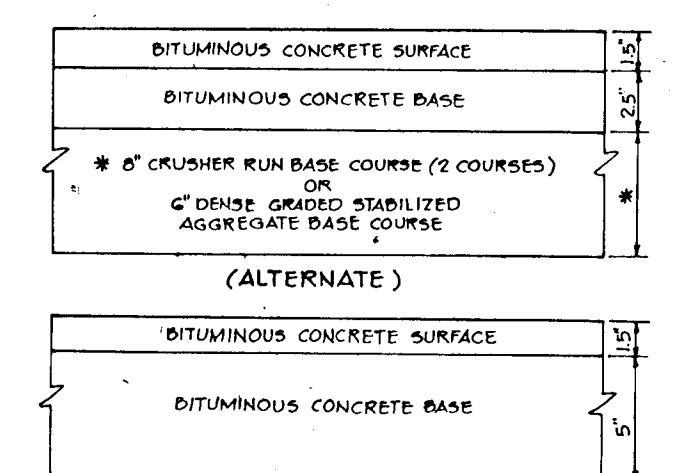
3-16-89  
DATE  
DESIGNED BY: D.B.S.  
DRAWN BY: D.O.S.  
PROJECT NO: 52304  
DATE: JANUARY 6, 1989  
SCALE: AS SHOWN  
DRAWING NO. 2 OF 5



**MARYLAND ROUTE 32**  
 INTERMEDIATE ARTERIAL DIVIDED  
 S.R.C. PLATS # 20210 & 20211  
**PLAN**  
 1" = 50'

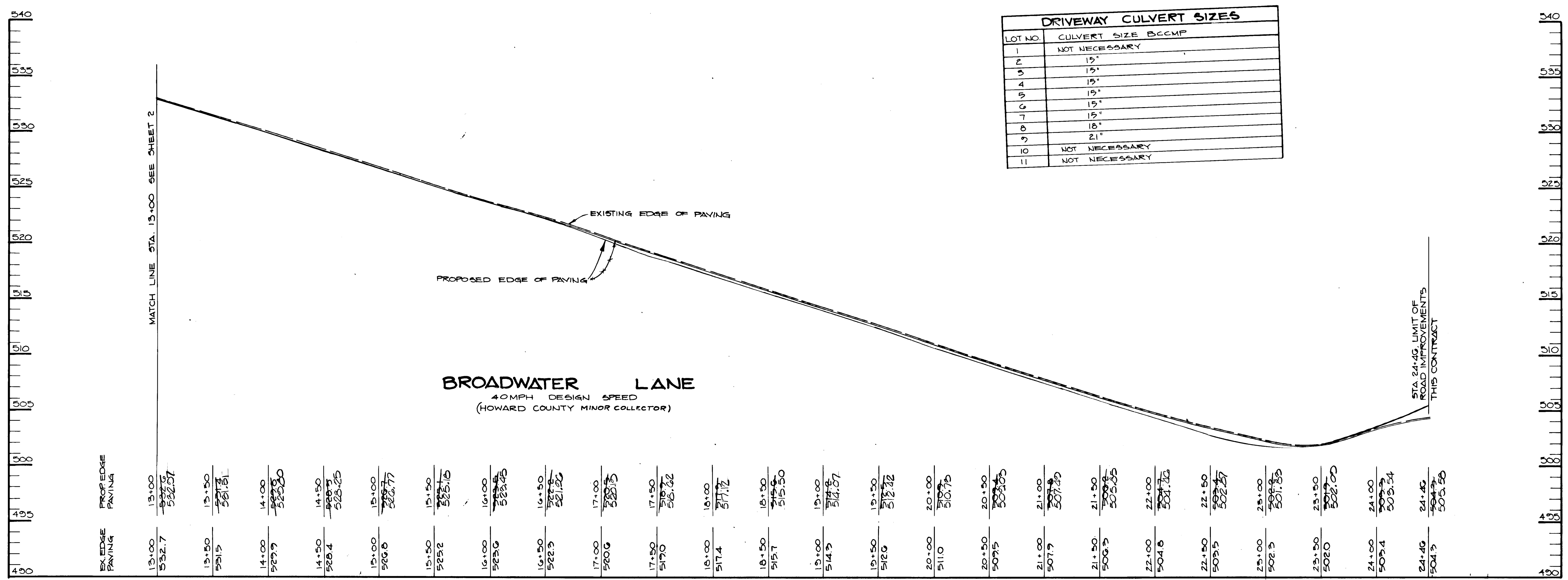


**TYPICAL WIDENING BROADWATER LANE**  
 STA 0+00 TO STA 24+46  
 NO SCALE



**P-2 PAVING DETAIL**  
 HOWARD COUNTY DESIGN MANUAL VOLUME II - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R 201)  
 (6" PAVING, P-2)

LOT NO.	CULVERT SIZE BCCMF
1	NOT NECESSARY
2	15"
3	15"
4	15"
5	15"
6	15"
7	15"
8	18"
9	21"
10	NOT NECESSARY
11	NOT NECESSARY



**PROFILE**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Frank S. Langh* 7-11-87  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Paul W. Johnson* 4/3/89  
 Chief, Land Development Division

*Draville W. Wehland* 4/6/89  
 Chief, Bureau of Highways

*William E. Ray* 4/7/89  
 Chief, Bureau of Engineering

G-27-01 1 REVISD PER RECLUE REVISIONS  
 DATE NO REVISION

OWNER/DEVELOPER  
 SAC-MP DEVELOPMENT LIMITED PARTNERSHIP  
 C/O MFP ASSOCIATES  
 3901 NATIONAL DRIVE SUITE 100  
 BURTONSVILLE, MARYLAND 20866

PROJECT 588-115 P87-32  
**ADAM S REACH**  
 SECTION ONE

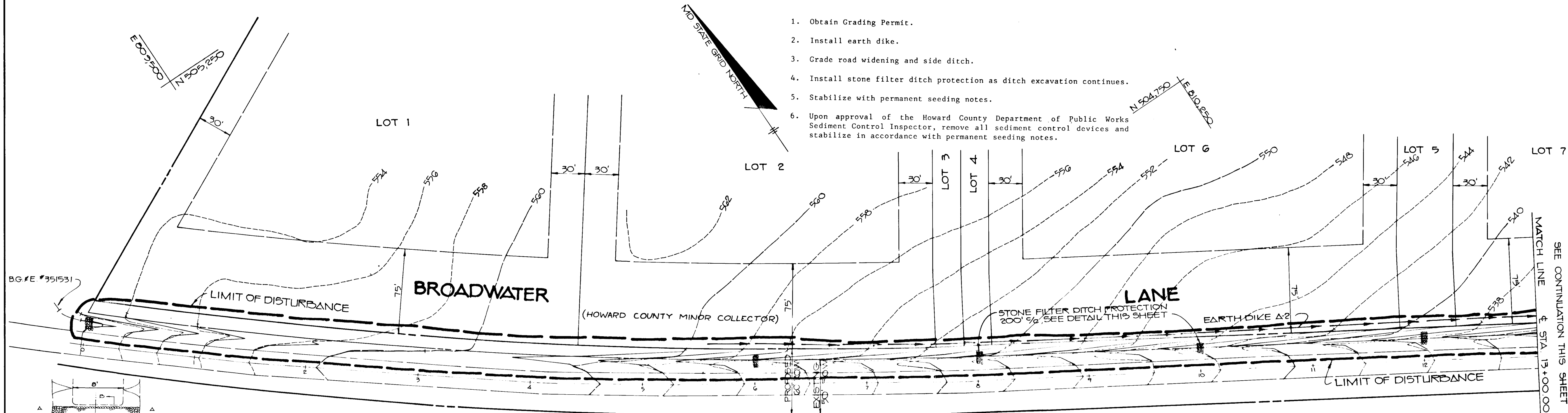
AREA TAX MAP 28/04 PARCEL 240 ZONED - R  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE PLAN & PROFILE  
**BROADWATER LANE**  
 (STA 13+00 TO STA 24+46)

**THE RIEMER GROUP, INC.**  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

DATE 3-16-89  
 DESIGNED BY: D.B.S.  
 DRAWN BY: R.A.W./D.O.S.  
 PROJECT NO: 52304  
 DATE: JANUARY 6, 1987  
 SCALE: AS SHOWN  
 DRAWING NO. 3 OF 5

1. Obtain Grading Permit.
2. Install earth dike.
3. Grade road widening and side ditch.
4. Install stone filter ditch protection as ditch excavation continues.
5. Stabilize with permanent seeding notes.
6. Upon approval of the Howard County Department of Public Works Sediment Control Inspector, remove all sediment control devices and stabilize in accordance with permanent seeding notes.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*David J. Taylor* 4/1/89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Paul J. Segan* 4/13/89  
 CHIEF, LAND DEVELOPMENT DIVISION

*Francis W. Weiland* 4/6/89  
 CHIEF, BUREAU OF HIGHWAYS

*Kieran S. Ray* 4/1/89  
 CHIEF, BUREAU OF ENGINEERING

BY THE DEVELOPER:  
*Alan Sklar* 3-16-89  
 DEVELOPER

BY THE ENGINEER:  
*Arthur E. Muegge* 3/16/89  
 ENGINEER

REVIEWED FOR HOWARD S.C.D.  
*John M. ...* 3/30/89  
 S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Stephen L. ...* 3/28/89  
 HOWARD S.C.D.

DATE	NO	REVISED PER	REDUCE	REVISIONS
G 2701				

OWNER/DEVELOPER  
 BAC-MP DEVELOPMENT LIMITED PARTNERSHIP  
 3401 NATIONAL DRIVE SUITE 100  
 BURTONSVILLE, MARYLAND 20866

PROJECT S 88-119 F 89-32  
**ADAMS REACH SECTION ONE**  
 AREA TAX MAPS 28 & 34 PARCEL 240 ZONED R  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE **GRADING, SEDIMENT CONTROL PLAN & DETAILS**

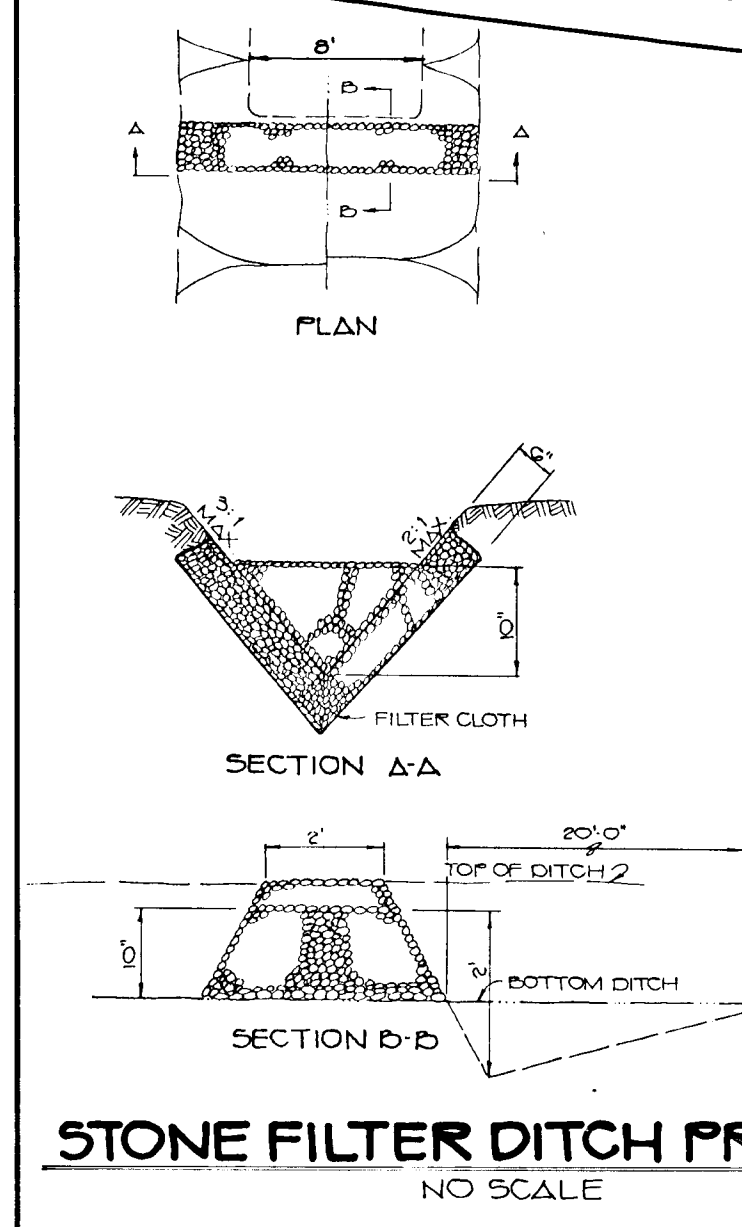
**THE RIEMER GROUP, INC.**  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

3-16-89  
 DATE

DESIGNED BY: D.B.S.  
 DRAWN BY: R.A.W.  
 PROJECT NO: 52304  
 DATE: JANUARY 6, 1989  
 SCALE: AS SHOWN  
 DRAWING NO. 4 OF 5

- I. Description**  
 The work encompasses the installation of an in-stream stone dike to be used as a sediment filtering device for streams that generally carry wet weather flow.
- II. Material Specifications**
1. Small Riprap - 8-12 inch washed stone and gravel shall be used.
  2. Filter Fabric - The filter cloth shall be a woven or non-woven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be inert to commonly encountered chemicals, hydrocarbons, mildew, and rot resistant. A one foot layer of 2" washed stone may be used instead of filter fabric.
- III. Construction Requirements**
1. Structure to be installed in-stream as first order of business to trap sediment generated during construction activities.
  2. The top width of the dike is to be from 2 feet.
  3. The distance between the dike and the disturbance is to be determined by flow rate of the waterway.
  4. Structure is to remain in place until all disturbed areas have been stabilized in accordance with an approved sediment and erosion control plan.
  5. Entrapped sediment is to be excavated periodically and disposed of in a SCD approved disposal area.
  6. Structure can be removed once approved by inspecting authority.

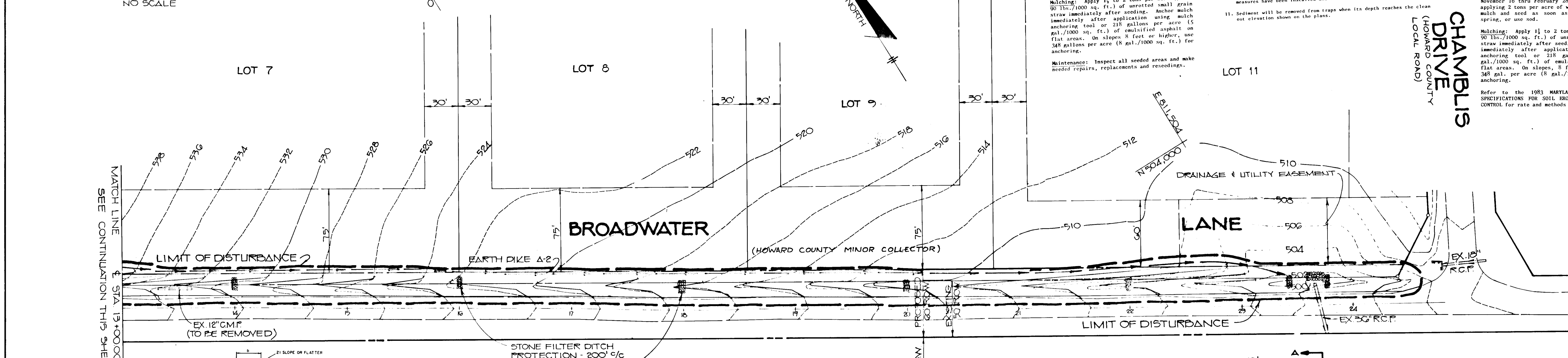
**MARYLAND ROUTE 32**  
 INTERMEDIATE ARTERIAL DIVIDED  
 S.R.C. PLAT NOS 29210 # 29211  
**PLAN**  
 1"=50'



- 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, discing 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 (92 lbs/1000 sq 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 10-0-0 urea 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, the period of seed with 60 lbs per acre of preferred site by Option (1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring. Option (2) 100 lbs per acre (3) Seed with 60 lbs Kentucky 31 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 2 1/2 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 248 gal. per acre (8 gal./1000 sq. ft.) for anchoring.
- Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

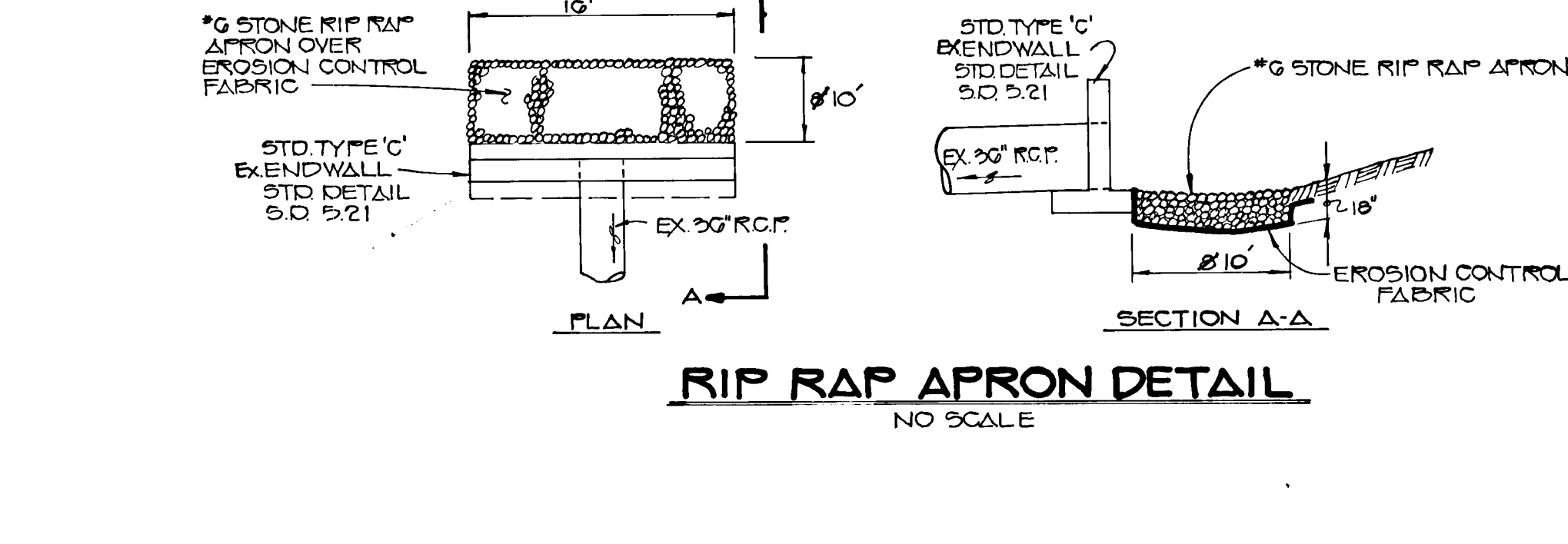
- SEDIMENT CONTROL NOTES**
1. A minimum of 2% slope must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (1992-2437).
  2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  3. Following initial soil disturbance or restoration, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter ditches and all slopes greater than 10%; b) 18 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 17, 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 (Sec. 30) and seeding (Sec. 31) and (Sec. 34), temporary seeding (Sec. 30) and mulching (Sec. 32). Temporary stabilization with mulch alone can only be done when recommended grading data do not allow for proper granulation and establishment of grasses.
  6. All sediment control structures are to remain in place and are to be maintained in operable condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
  7. Site Analysis:  
 Total Area of Site: 3555 acres  
 Area Disturbed: 110 acres  
 Area to be seeded or paved: 1000 acres  
 Area to be vegetatively stabilized: 155 acres  
 Total Soil: 265 cu. yds.  
 Total Fill: 265 cu. yds.
  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 Department of Public Works Sediment Control Inspector.
  10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
  11. Sediment will be removed from traps when its depth reaches the clean out situation shown on the plans.

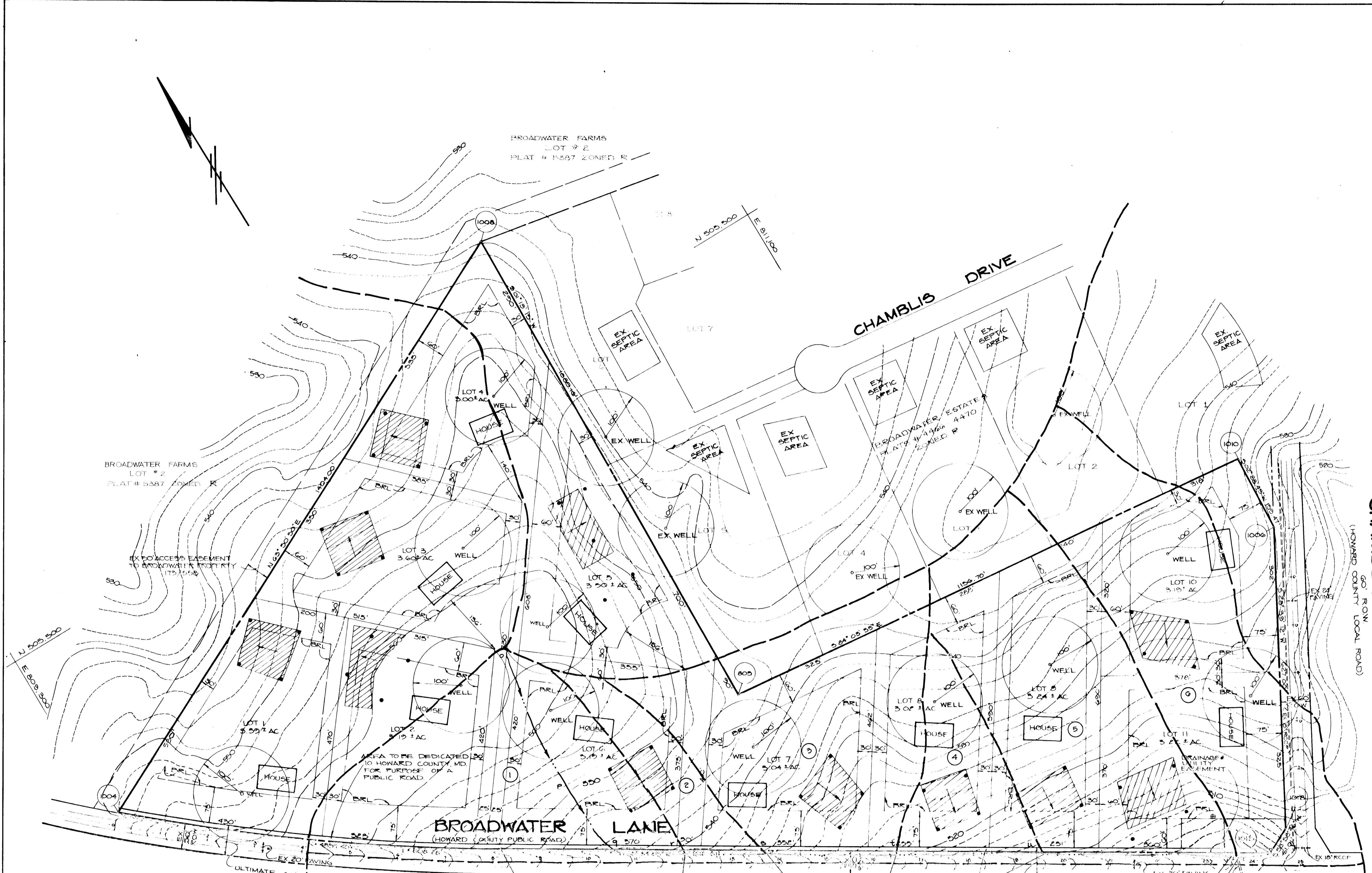
- TEMPORARY SEEDING NOTES**
- Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
- Seeding Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments: Apply 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 25 bushel per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 2 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 seed.
- 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 2 1/2 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 248 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.



- PLAN CHANNEL STABILIZATION**
- | TYPE OF TREATMENT | DIKE A                                    | DIKE B   |
|-------------------|---|--|
| 1                 | 5-3.0' SEED AND STRAW MULCH               | SEED AND STRAW MULCH   |
| 2                 | 3.1-5.0' SEED AND STRAW MULCH             | SEED USING BITE-OF-COLLECTOR; 500' OF STONE LINED RIP-RAP 4-8" |
| 3                 | 5.1-8.0' SEED WITH ALTE. OR SOIL 2" STONE | LINED RIP-RAP 4-8"   |
| 4                 | 8.1-20' LINED RIP-RAP 4-8"                | ENGINEERING DESIGN   |
- CONSTRUCTION SPECIFICATIONS**
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  2. DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  3. DIKES WHICH MAY BE WIDENED AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE FLOW BY CONSTRUCTION OR TRAFFIC. AS NECESSARY TO PROVIDE A STABILIZED SAFE OUTLET.
  4. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. SAFETY SHALL BE CONSIDERED IN THE SELECTION OF THE TYPE OF DIKE AND THE LOCATION OF THE SAFETY BARRIERS EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
  5. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
  6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
  7. PAVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
- EARTH DIKE**  
 NO SCALE

**MARYLAND ROUTE 32**  
 INTERMEDIATE ARTERIAL DIVIDED  
 S.R.C. PLAT NOS 29210 # 29211  
**PLAN**  
 1"=50'





CHAMBLIS DRIVE  
(HOWARD COUNTY LOCAL ROAD)

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Frank J. J. [Signature]* 4-11-89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 4/5/89  
 CHIEF, LAND DEVELOPMENT DIVISION  
*[Signature]* 4/6/89  
 CHIEF, BUREAU OF HIGHWAYS  
*[Signature]* 4/7/89  
 CHIEF, BUREAU OF ENGINEERING

G-2791	1	REVISED PER REDLINE	REVISIONS
DATE	NO		

OWNER DEVELOPER  
 BAC-MP DEVELOPMENT LIMITED PARTNERSHIP  
 C/O MP ASSOCIATES  
 3701 NATIONAL DRIVE SUITE 100  
 BURTONSVILLE, MARYLAND 20866

PROJECT G-88-110 P-89-32  
**ADAMS REACH**  
 SECTION ONE  
 AREA TAX MAP 2791 P-89-11 240 ZONED R-2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE  
**DRAINAGE AREA MAP**  
 THE RIEMER GROUP, INC.  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

3-16-89  
 DATE  
 DESIGNED BY D.B.S.  
 DRAWN BY R.A.W./D.O.S.  
 PROJECT NO 52804  
 DATE JANUARY 6, 1989  
 SCALE AS SHOWN  
 DRAWING NO 5 OF 5

- LEGEND**
- LETTERS o-p SHEET FLOW
  - LETTERS p-q SHALLOW CONCENTRATED FLOW
  - LETTERS q-v CHANNEL FLOW
  - ⊙ DRAINAGE AREA I.D.
  - ⊙ ACCUMULATED DRAINAGE AREA TO ROAD SIDE DITCH
  - WATER TRAVEL PATH

**MARYLAND ROUTE 32**  
 INTERMEDIATE ARTERIAL DIVIDED  
 S.R.C. PLATS # 29210 + 29211

A- 4.0 AC A- 4.2 IMP EX 12' D  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 B- 4.2 IMP A- 11.7 AC C- 4.2 IMP  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 D- 4.1 IMP A- 13.5 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 E- 4.1 IMP A- 12.5 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 F- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 G- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 H- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 I- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 J- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 K- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 L- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 M- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 N- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 O- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 P- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 Q- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 R- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 S- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 T- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 U- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 V- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 W- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 X- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 Y- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R  
 Z- 4.1 IMP A- 25.7 AC  
 C- 0.21 ZONED R C- 0.21 ZONED R

**PLAN**  
 SCALE 1"=100'

1989

AS-BUILT F89-130