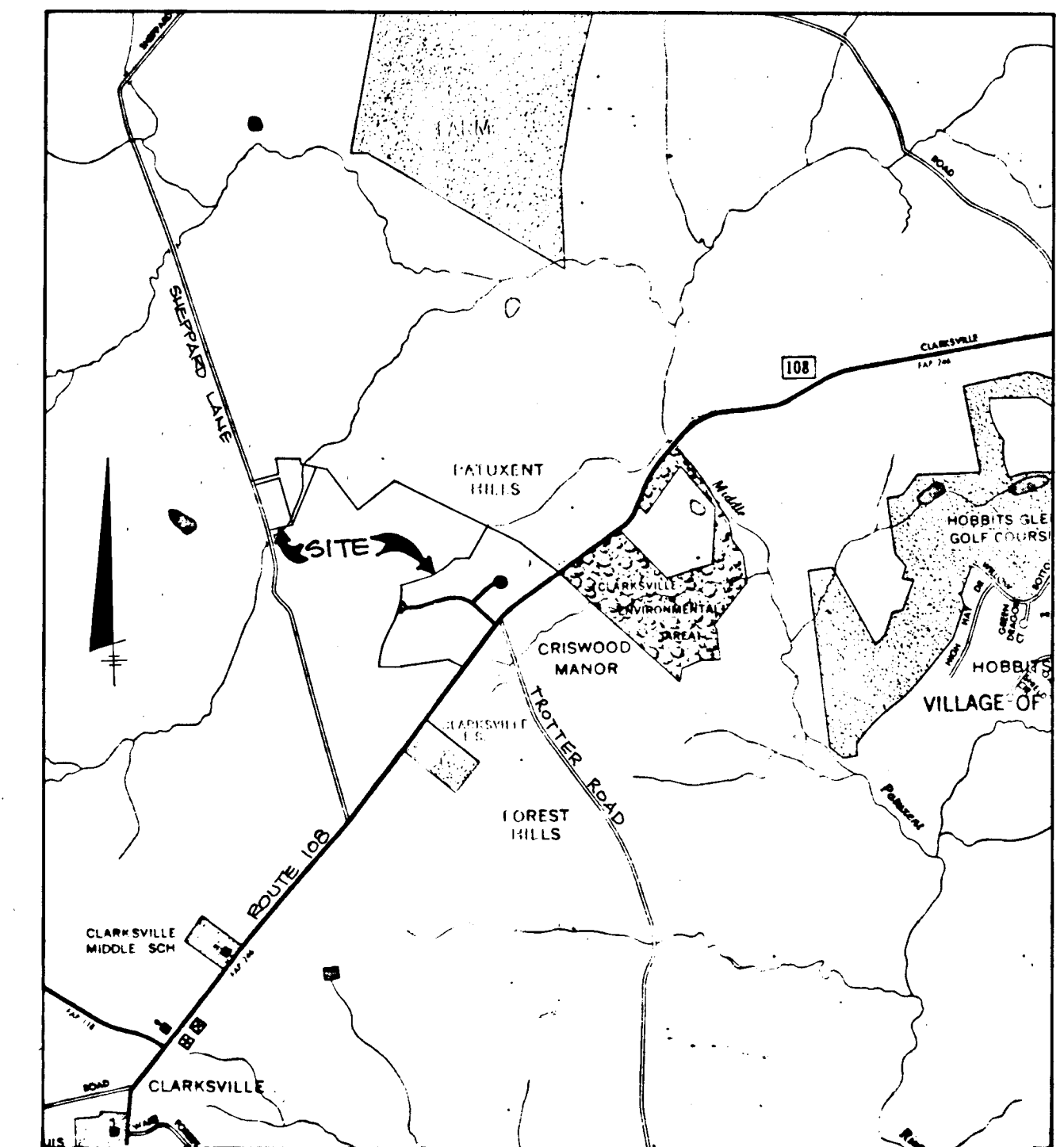


# ROADWAYS AND STORM DRAINS

# CLEARVIEW ESTATES SECTION 1

# 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1"=2000'

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE OF BEAUTIFUL VIEW LANE
3	PLAN AND PROFILE OF BEAUTIFUL VIEW LANE
4	PLAN AND PROFILE OF KAREN COURT
5	PLAN AND PROFILE OF MARYLAND ROUTE 108 IMPROVEMENTS
6	PLAN AND PROFILE OF SHEPPARD LANE IMPROVEMENTS
7	PROFILE MARYLAND ROUTE 108 IMPROVEMENTS, STORM DRAIN PROFILES AND DETAILS
8	DETAIL SHEET
9	DRAINAGE AREA MAP
10	GRADING AND SEDIMENT CONTROL PLAN
11	GRADING AND SEDIMENT CONTROL PLAN

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 ON 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.G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED JUNE, 1987.
- 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 50' RIGHT-OF-WAYS	30 M.P.H.
ALL RIGHT-OF-WAYS	M.P.H.



PLAN  
SCALE: 1"=200'

AS-BUILT

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Adrian Smith* 4/22/88  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Michael J. Fi...* 4-13-88  
Chief, Land Development Division DATE

*Greenville W. Weiland* 4/13/88  
Chief, Bureau of Highways DATE

*Michael J. Fi...* 4/13/88  
Chief, Bureau of Engineering DATE

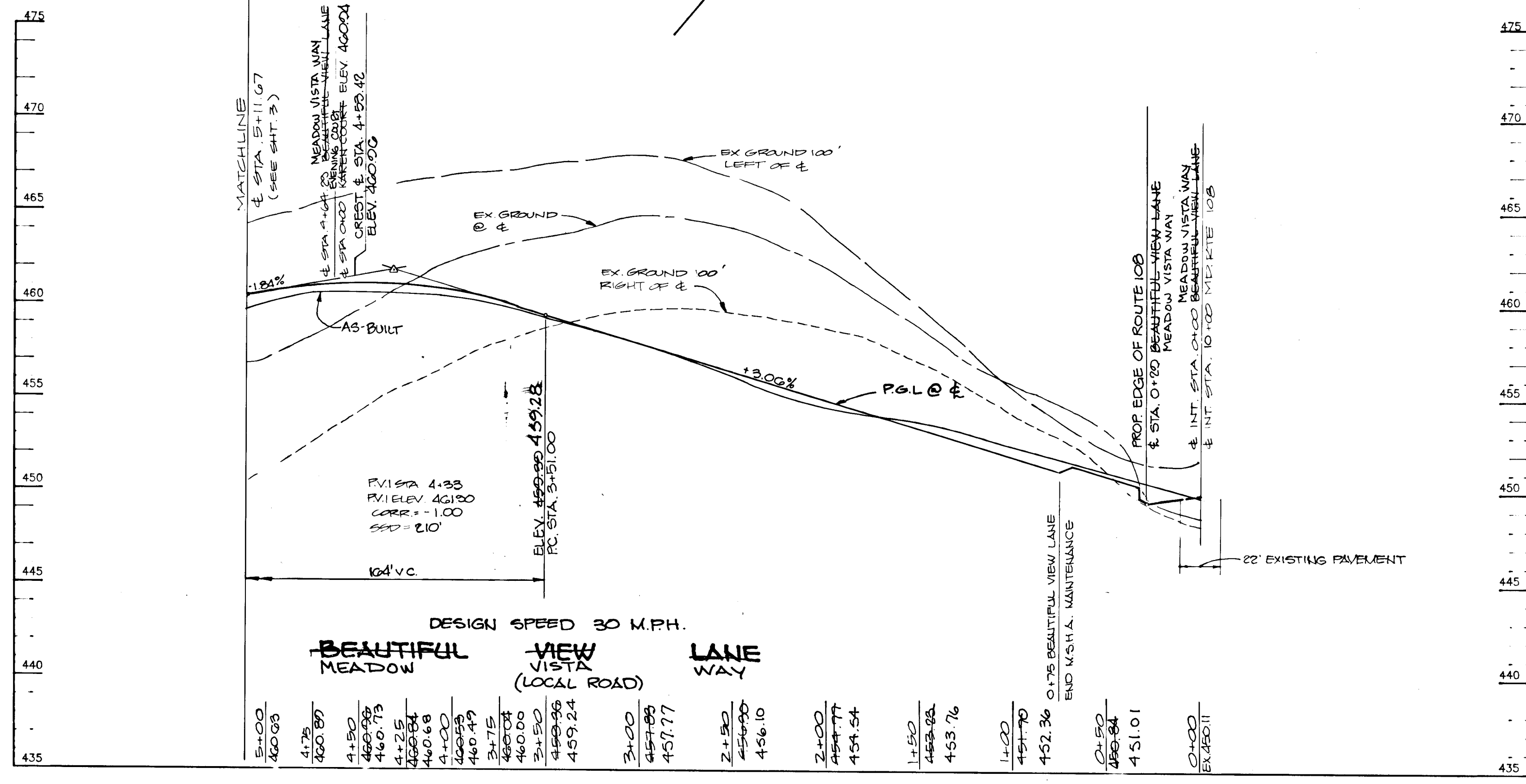
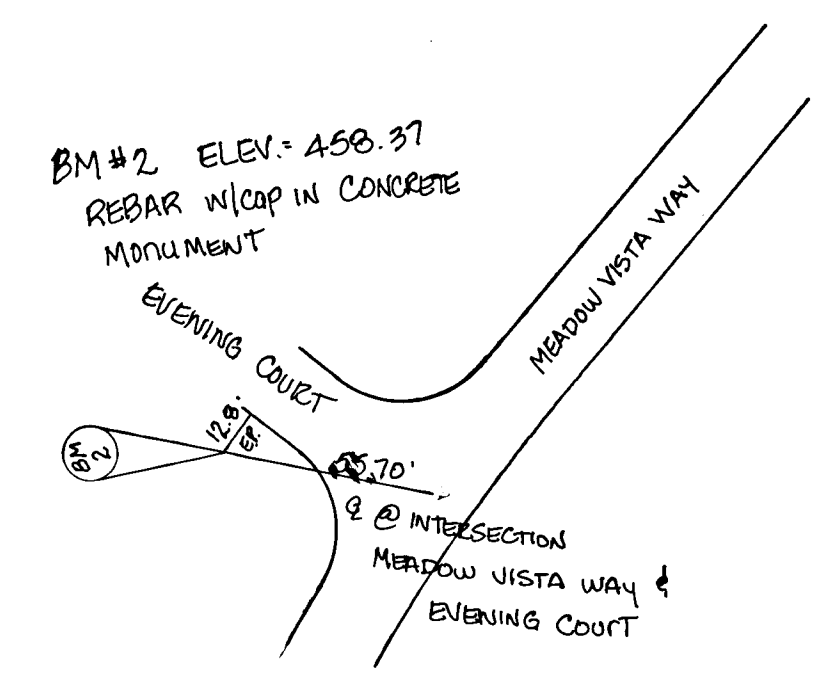
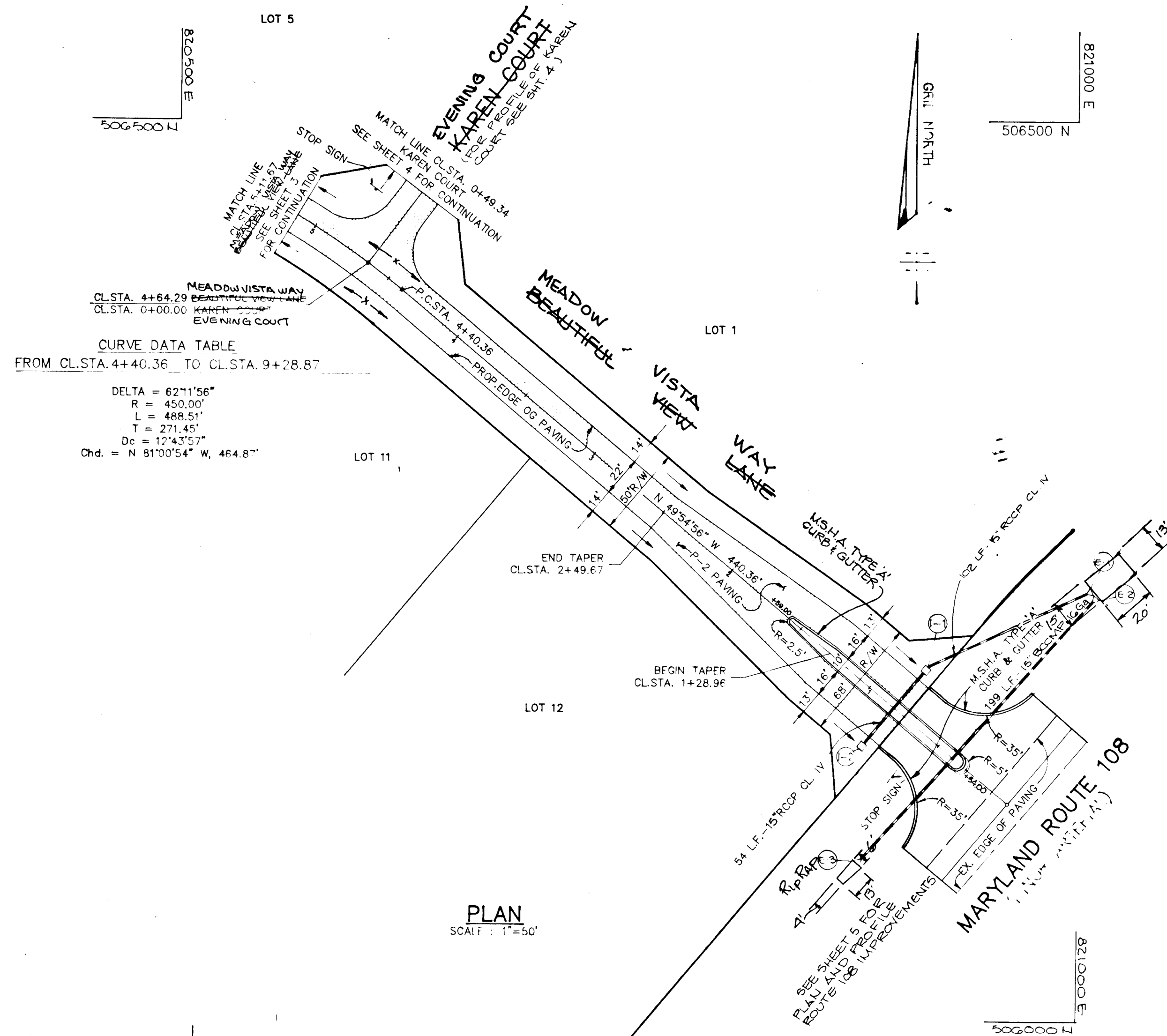
DATE	NO.	REVISION
OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP 56 RANDALL CONSTRUCTION CO. INC. 5801 TWIN KNOLLS ROAD, SUITE 102 COLUMBIA, MARYLAND 21045		
DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP 56 RANDALL CONSTRUCTION CO. INC. 5801 TWIN KNOLLS ROAD, SUITE 102 COLUMBIA, MARYLAND 21045		
PROJECT CLEARVIEW ESTATES SECTION ONE (LOTS 1 - 14)		
AREA: MAP 29 & 35 PARCEL 39 & 40 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE SHEET		

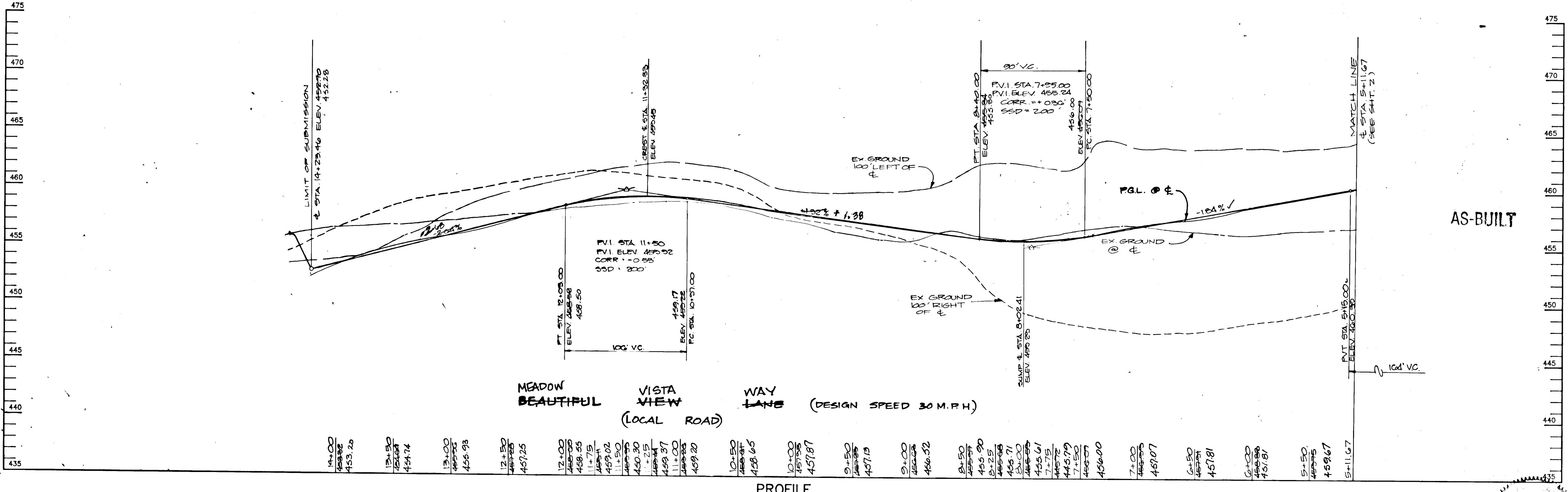
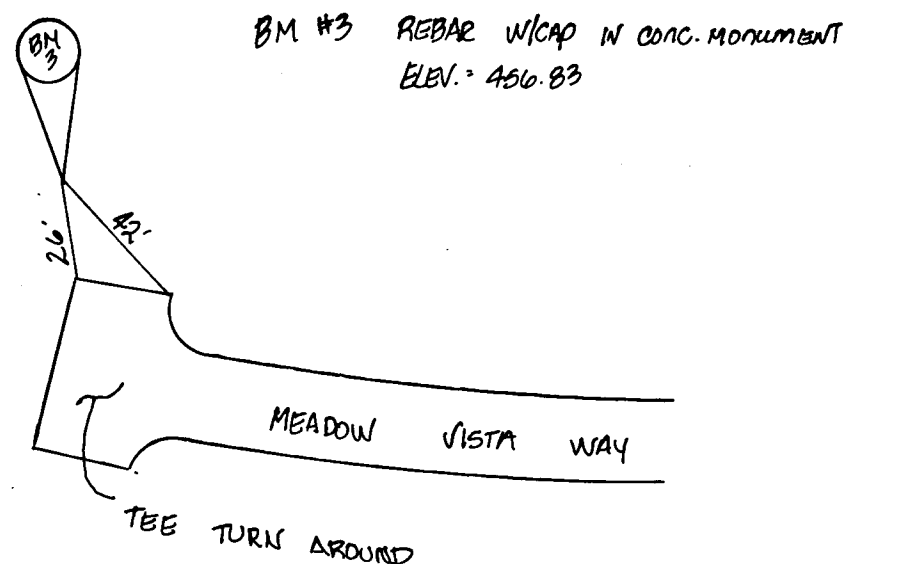
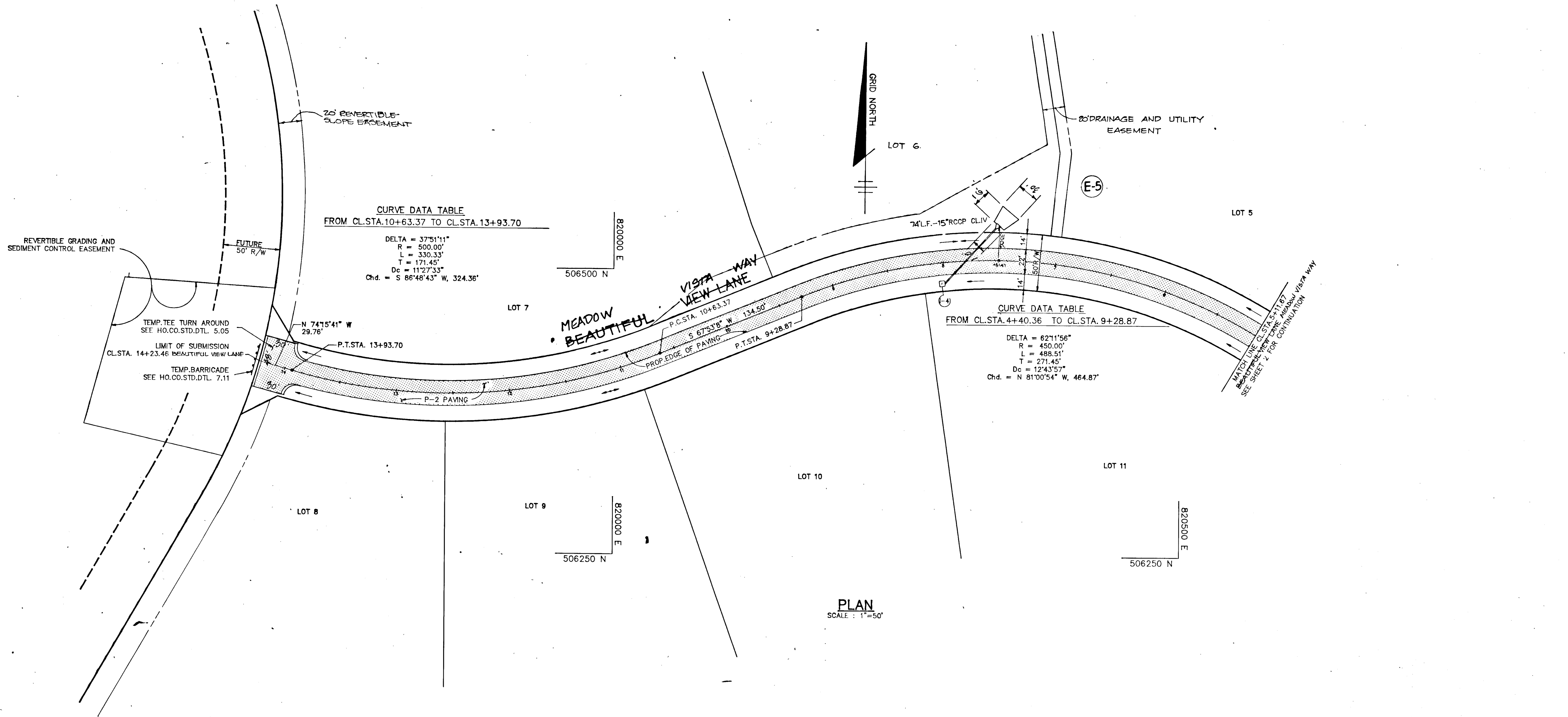
THE RIEMER GROUP, INC.  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

	DESIGNED BY: W.C.W.
	DRAWN BY: P.B.S.
	PROJECT NO: 43602
	DATE: JANUARY 27, 1988
	SCALE: AS SHOWN
	DRAWING NO. 1 OF 11



Arthur E. Wuegge  
1-6-88





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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*Howard Ruth* 4/22/88  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Walter F. F.* 4-12-88  
Chief, Land Development Division DATE

*Francis W. Weiland* 4/13/88  
Chief, Bureau of Highways DATE

*Walter F. F.* 4-12-88  
Chief, Bureau of Engineering DATE

1-3-88 BY *W.M.E.A.*  
5-4-00 1 ADDED PVI STA. 5+15.00 TO PROFILE

DATE	NO.	REVISION

OWNER: CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
% RANDALL CONSTRUCTION CO. INC.  
5501 TWIN KNOLLS ROAD, SUITE 102  
COLUMBIA, MARYLAND 21045

DEVELOPER: CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
% RANDALL CONSTRUCTION CO. INC.  
5501 TWIN KNOLLS ROAD, SUITE 102  
COLUMBIA, MARYLAND 21045

PROJECT: **CLEARVIEW ESTATES**  
SECTION ONE  
(LOTS 1 - 14)

AREA: MAP 29 & 35 PARCEL 39 & 40  
5TH ELECTION DISTRICT  
HOWARD COUNTY MARYLAND

TITLE: **PLAN AND PROFILE OF MEADOW BEAUTIFUL VISTA WAY BEAUTIFUL VIEW LANE**

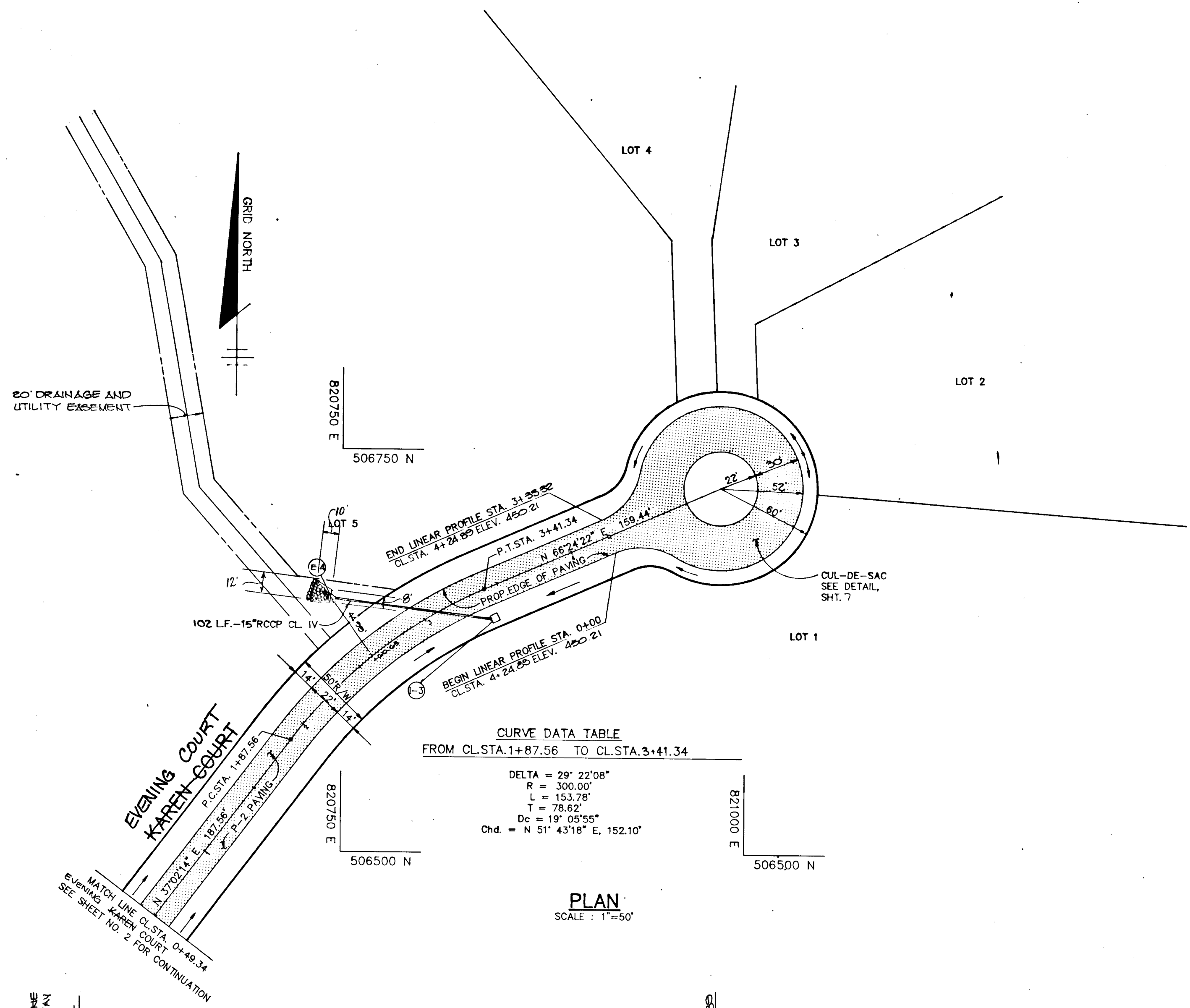
**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

1-4-88 DATE

DESIGNED BY: W.C.W.  
DRAWN BY: J.L.B.  
PROJECT NO: 43602  
DATE: JANUARY 27, 1988  
SCALE: AS SHOWN  
DRAWING NO. 3 OF 11

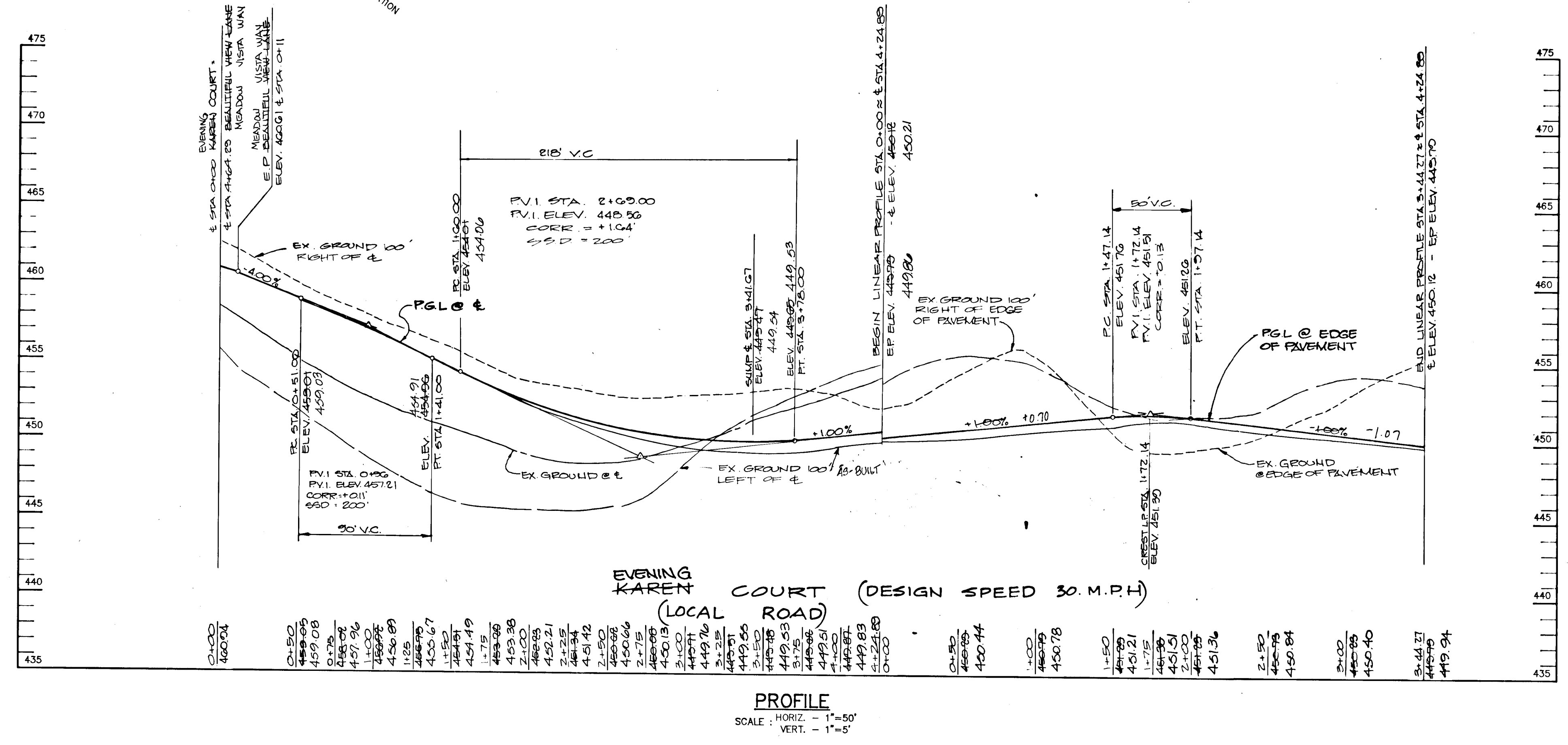
STATE OF MARYLAND PROFESSIONAL ENGINEER  
*Walter F. F.*  
ARTHWK: MUEGGELT

1353



**CURVE DATA TABLE**  
FROM CL STA. 1+87.56 TO CL STA. 3+41.34

DELTA = 29° 22' 08"
R = 300.00'
L = 153.78'
T = 78.62'
Dc = 19° 05' 55"
Chd. = N 51° 43' 18" E, 152.10'



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*James R. Smith* 4/22/88  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William L. F.* 4-13-88  
Chief, Land Development Division Date

*Granville W. McNeeney* 4/13/88  
Chief, Bureau of Highways Date

*William L. F.* 4-19-88  
Chief, Bureau of Engineering Date

1-3-82 AS BUILT M.M.E.A.  
5-4-80 REVISED PROFILE TO REFLECT CHA CHANGE

DATE NO REVISION

OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
% RANDALL CONSTRUCTION CO. INC.  
5501 TWIN KNOLLS ROAD, SUITE 102  
COLUMBIA, MARYLAND 21045

DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
% RANDALL CONSTRUCTION CO. INC.  
5501 TWIN KNOLLS ROAD, SUITE 102  
COLUMBIA, MARYLAND 21045

PROJECT CLEARVIEW ESTATES  
SECTION ONE  
(LOTS 1-14)

AREA: MAP 29 & 35 PARCEL 39 & 40  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

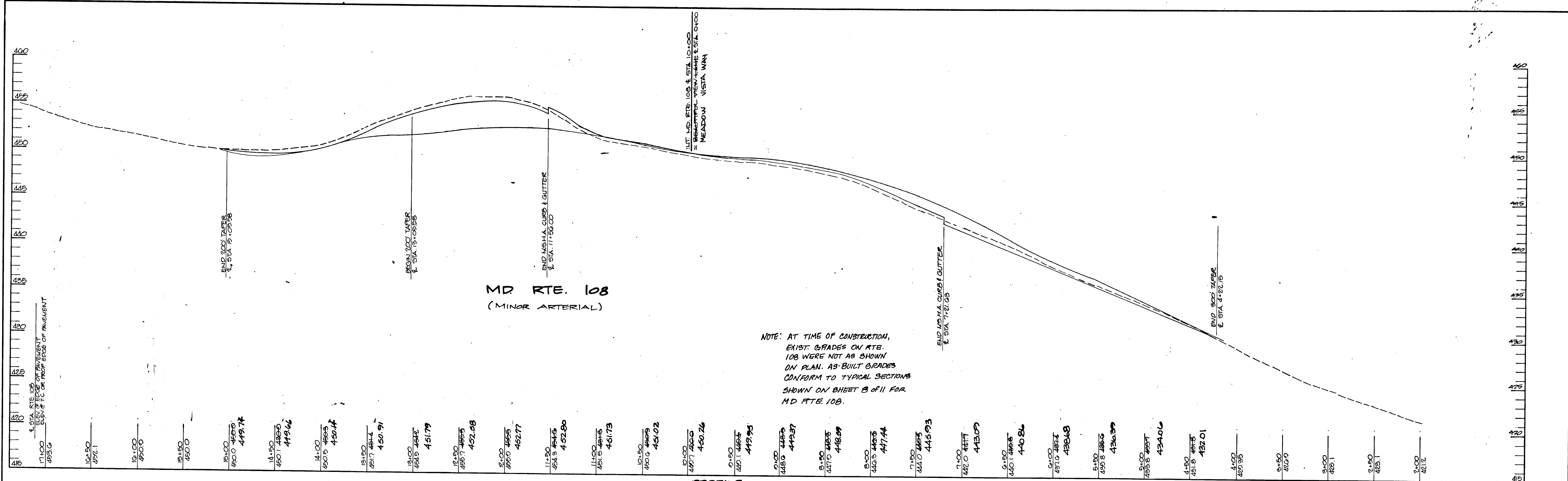
TITLE PLAN AND PROFILE OF  
EVENING KAREN COURT

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

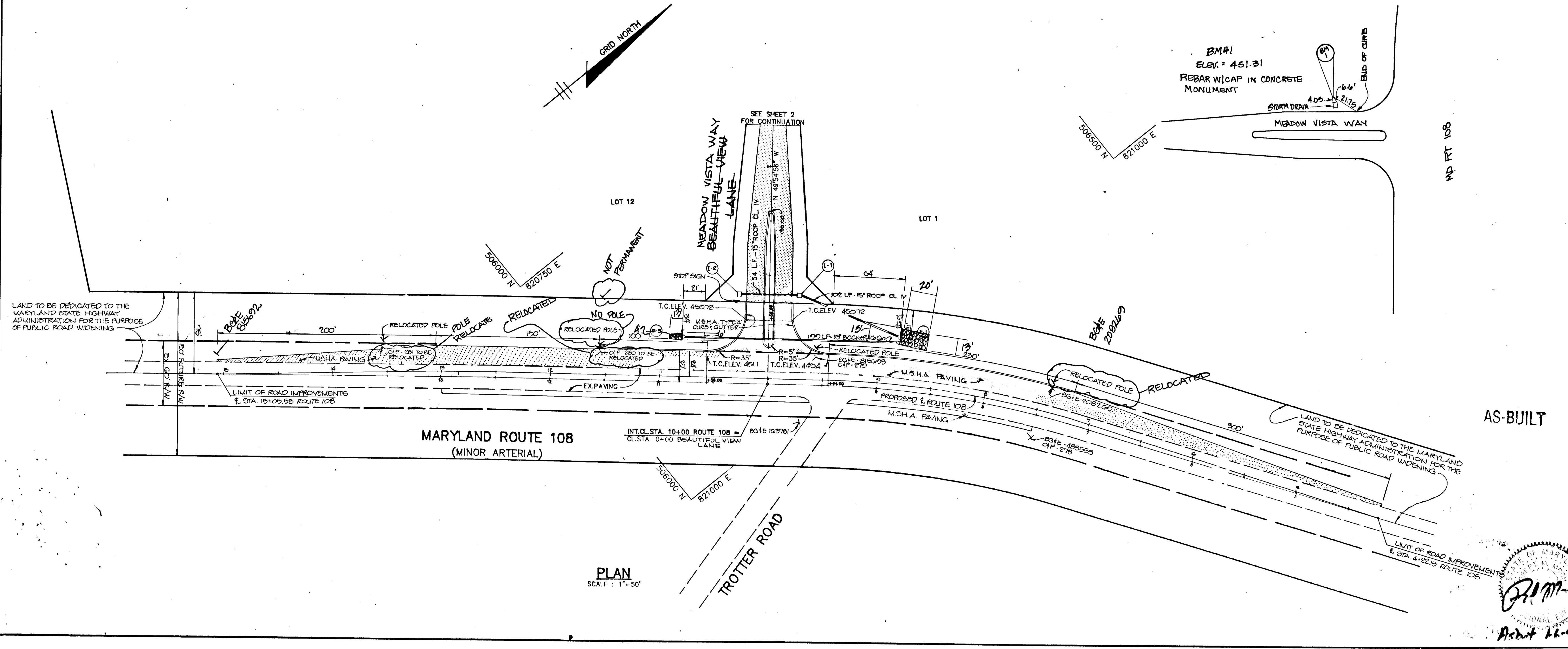
4-4-88 DATE  
DESIGNED BY: W.C.W.  
DRAWN BY: J.L.B.  
PROJECT NO: 43602  
DATE: JANUARY 27, 1988  
SCALE: AS SHOWN  
DRAWING NO. 4 OF 11

AS-BUILT





**PROFILE**  
 HOR. 1"=50'  
 VERT. 1"=5'



**PLAN**  
 SCALE: 1"=50'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Joseph Smith* 4/22/88  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William H. ...* 4-13-88  
 Chief, Land Development Division

*Dorcas H. ...* 4/13/88  
 Chief, Bureau of Highways

*William H. ...* 4/14/88  
 Chief, Bureau of Engineering

DATE	NO.	REVISION
1-1-88	1	AS-BUILT P.M.M.E.A.
5-4-88	1	ADDED POLES, REVISED ROUTE 108 LANE CONFIGURATION, REVISED PROFILE

OWNER: CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
 1/2 RANDALL CONSTRUCTION CO. INC.  
 5501 TWIN KNOLLS ROAD, SUITE 102  
 COLUMBIA, MARYLAND 21045

DEVELOPER: CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
 1/2 RANDALL CONSTRUCTION CO. INC.  
 5501 TWIN KNOLLS ROAD, SUITE 102  
 COLUMBIA, MARYLAND 21045

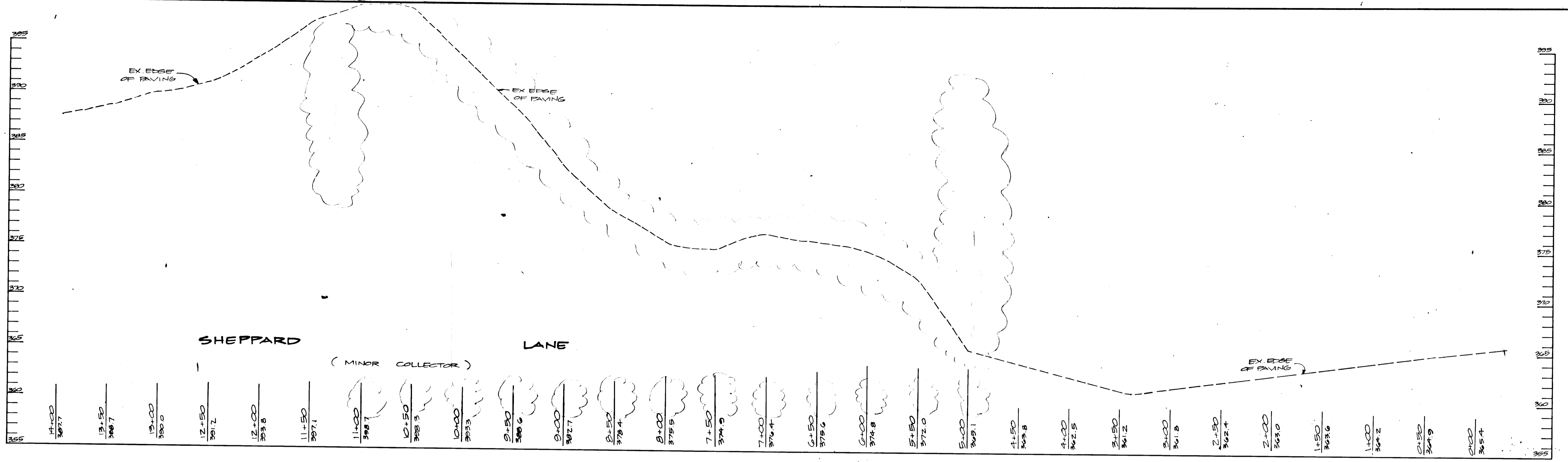
PROJECT: **CLEARVIEW ESTATES**  
 SECTION ONE  
 (LOTS 1-14)

AREA: MAP 29 & 35 PARCEL 29 & 40  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

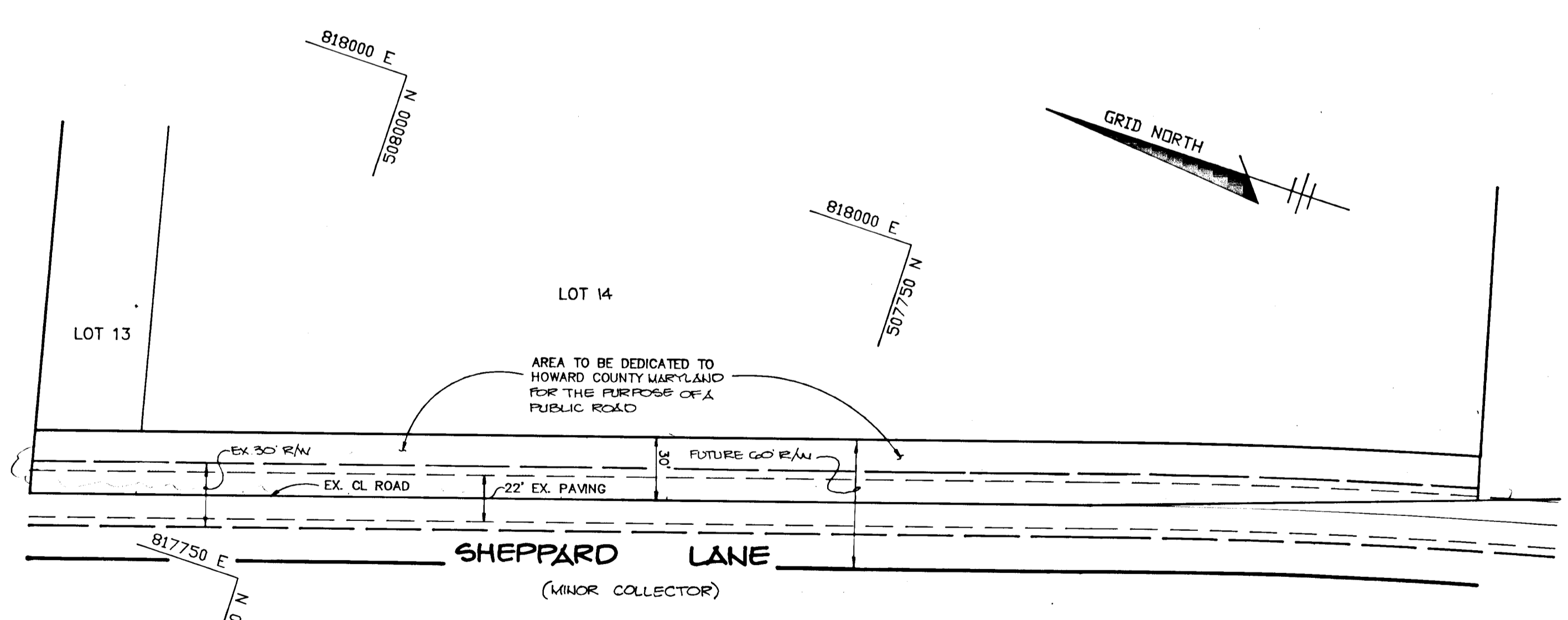
TITLE: **PLAN AND PROFILE OF MD. ROUTE 108 IMPROVEMENTS**

**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: 4-4-88  
 DESIGNED BY: W.C.W.  
 DRAWN BY: J.L.B.  
 PROJECT NO: 49602  
 DATE: JANUARY 27, 1988  
 SCALE: AS SHOWN  
 DRAWING NO: 5 OF 11



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



**PLAN**  
 SCALE: 1"=50'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*James Roth* 4/22/88  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Mark H.* 4-13-88  
 Chief, Land Development Division. Date  
*Charles W. Weiland* 4/13/88  
 Chief, Bureau of Highways. Date  
*Mark H.* 4/14/88  
 Chief, Bureau of Engineering. Date

0-15-01	1	REVOKED IMPROVEMENTS TO SHEPPARD LANE
DATE	NO	REVISION
OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP % RANDALL CONSTRUCTION CO. INC. 5501 TWIN KNOLLS ROAD, SUITE 102 COLUMBIA, MARYLAND, 21045		
DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP % RANDALL CONSTRUCTION CO. INC. 5501 TWIN KNOLLS ROAD, SUITE 102 COLUMBIA, MARYLAND 21045		

PROJECT **CLEARVIEW ESTATES**  
 SECTION ONE  
 (LOTS 1-14)  
 AREA: MAP 29 & 35 PARCEL 39 & 40  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 TITLE: **PLAN AND PROFILE OF SHEPPARD LANE IMPROVEMENTS**

**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

4-88 DATE	DESIGNED BY W.C.W.
	DRAWN BY J.L.B.
	PROJECT NO: 43602
	DATE: JANUARY 27, 1988
	SCALE: AS SHOWN
	DRAWING NO. 6 OF 11

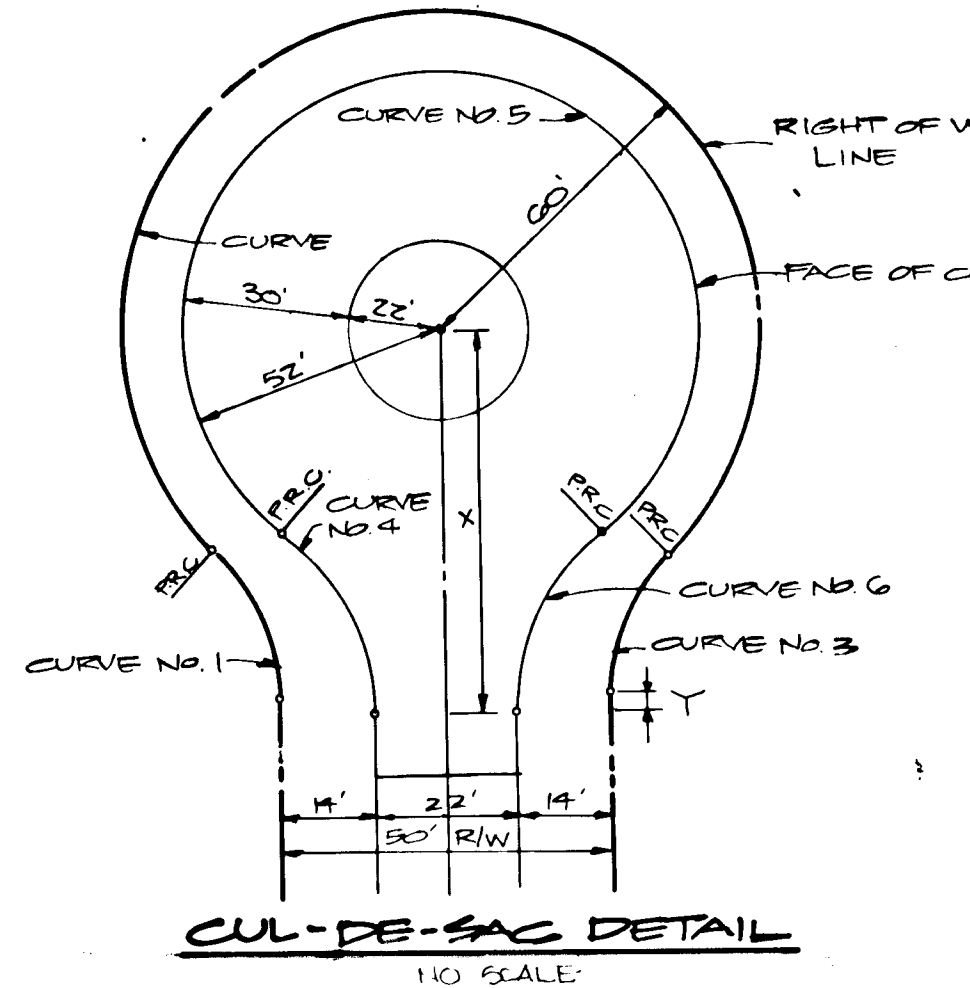


As-built 4-6-92

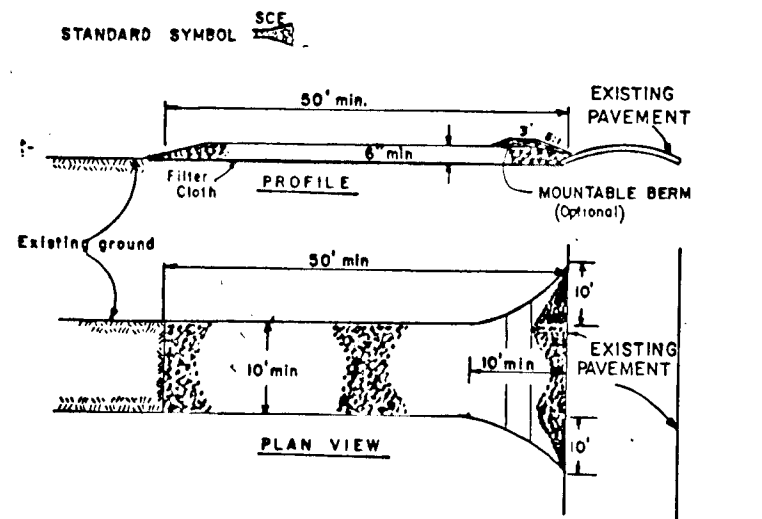
1353

X = 76.57' Y = 7.88' LP = 34.27'

CURVE NO	Y	R	L	T	LC
1	23.85	28.00	23.85	12.73	22.69
2	28.00	60.00	201.99	21.42	—
3	60.00	40.00	39.99	—	—
4	60.00	40.00	39.99	—	—
5	28.00	28.00	23.85	—	—



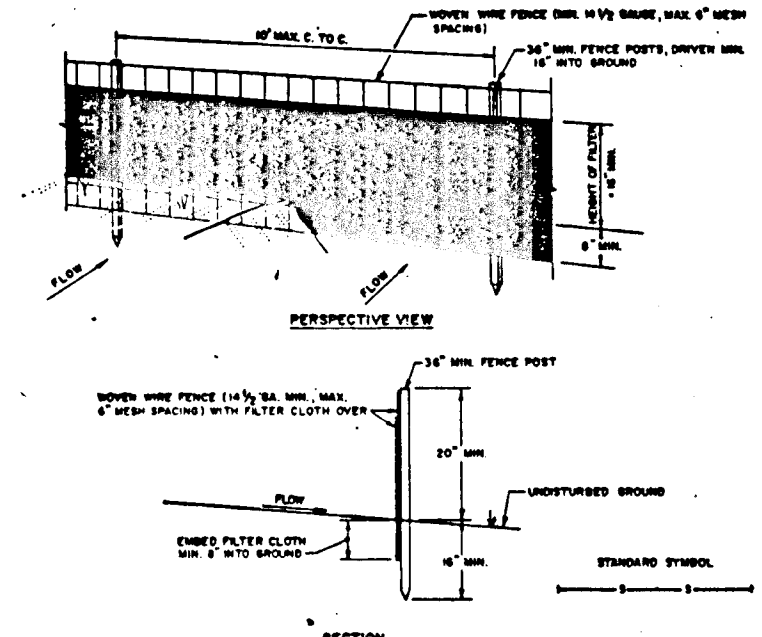
CURVE DATA FOR CUL-DE-SAC



**CONSTRUCTION SPECIFICATIONS**

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

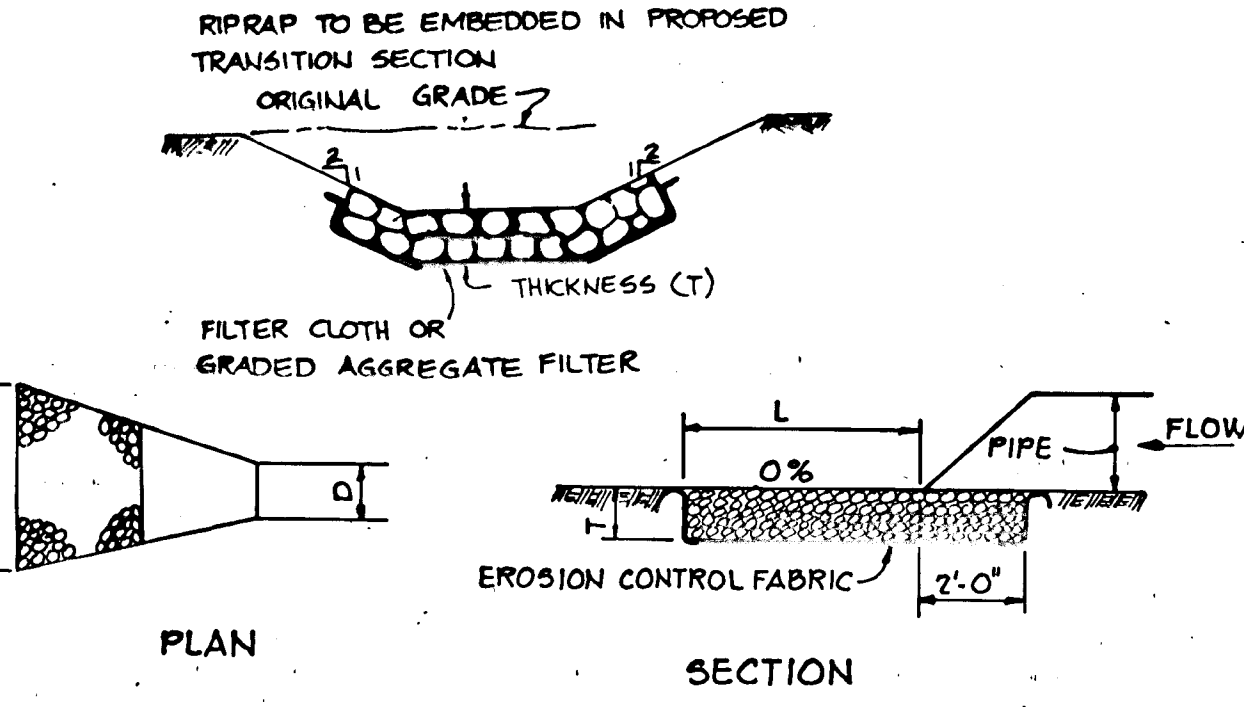
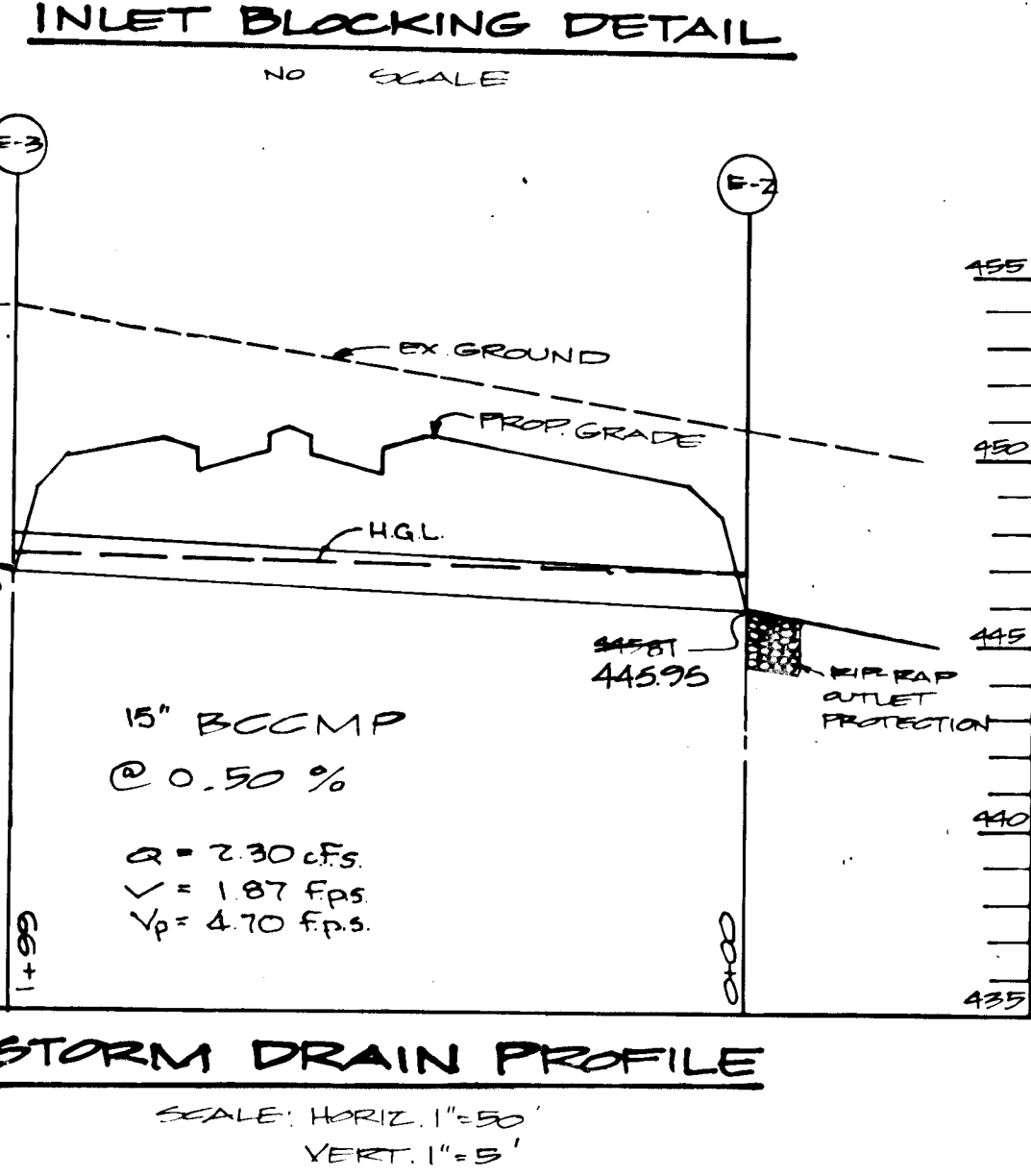
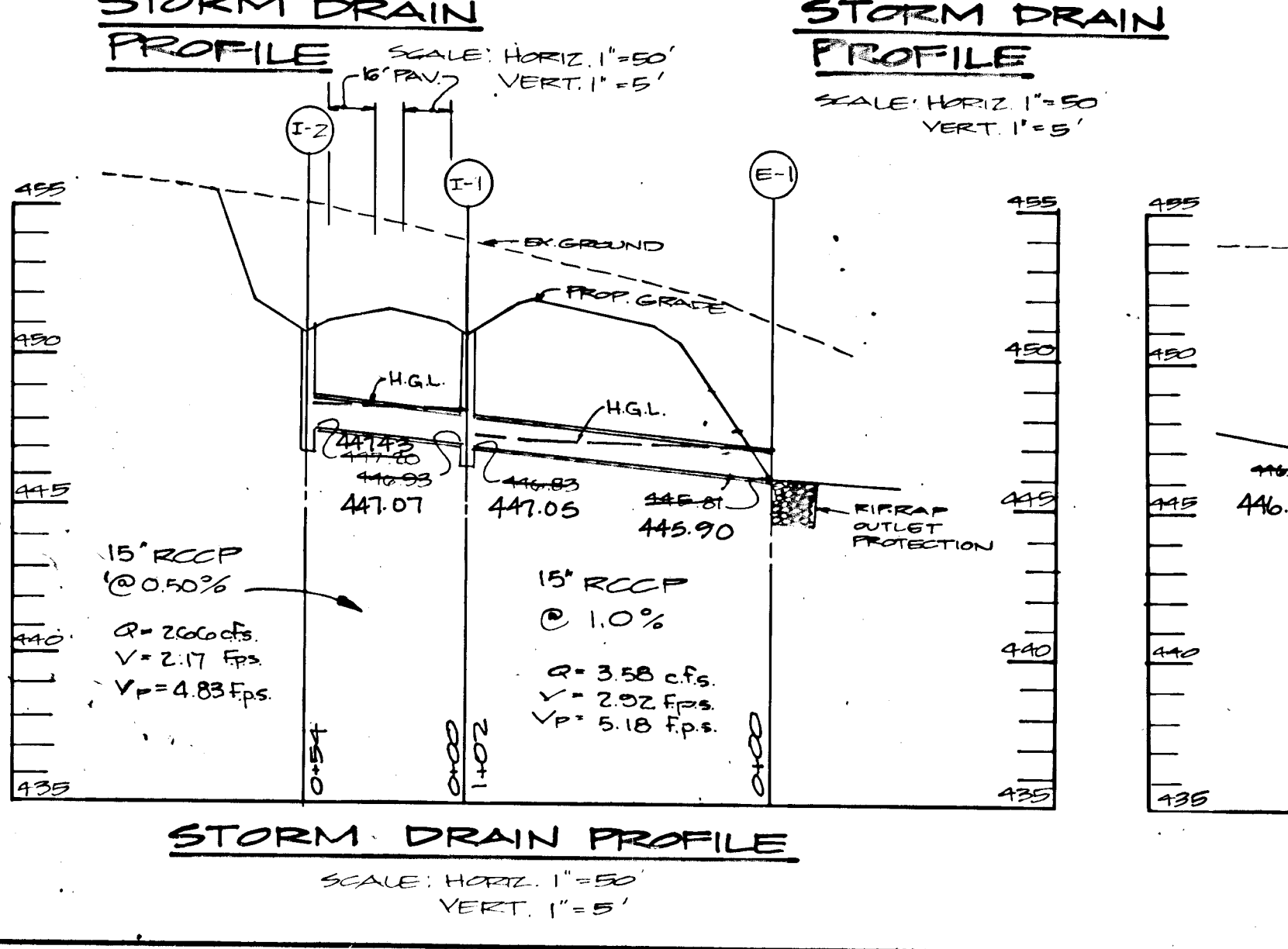
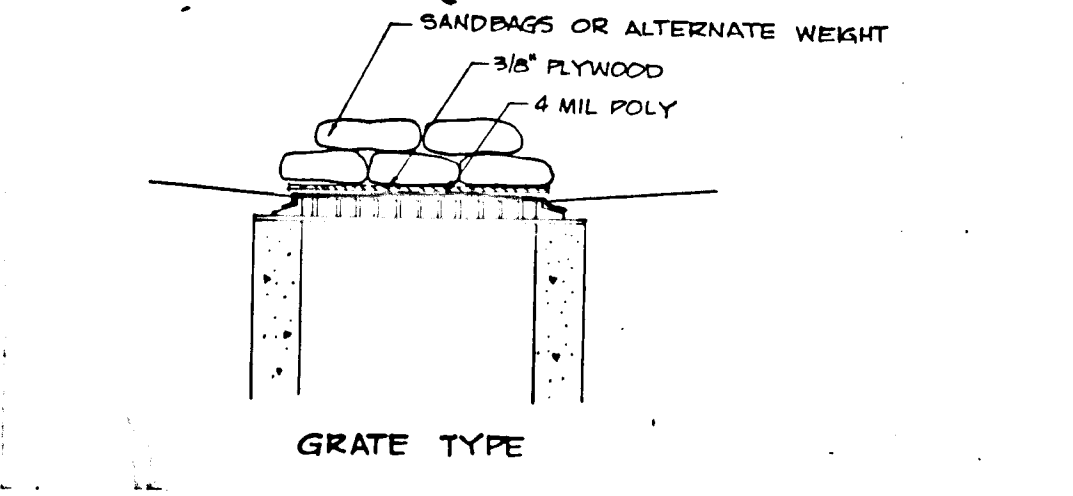
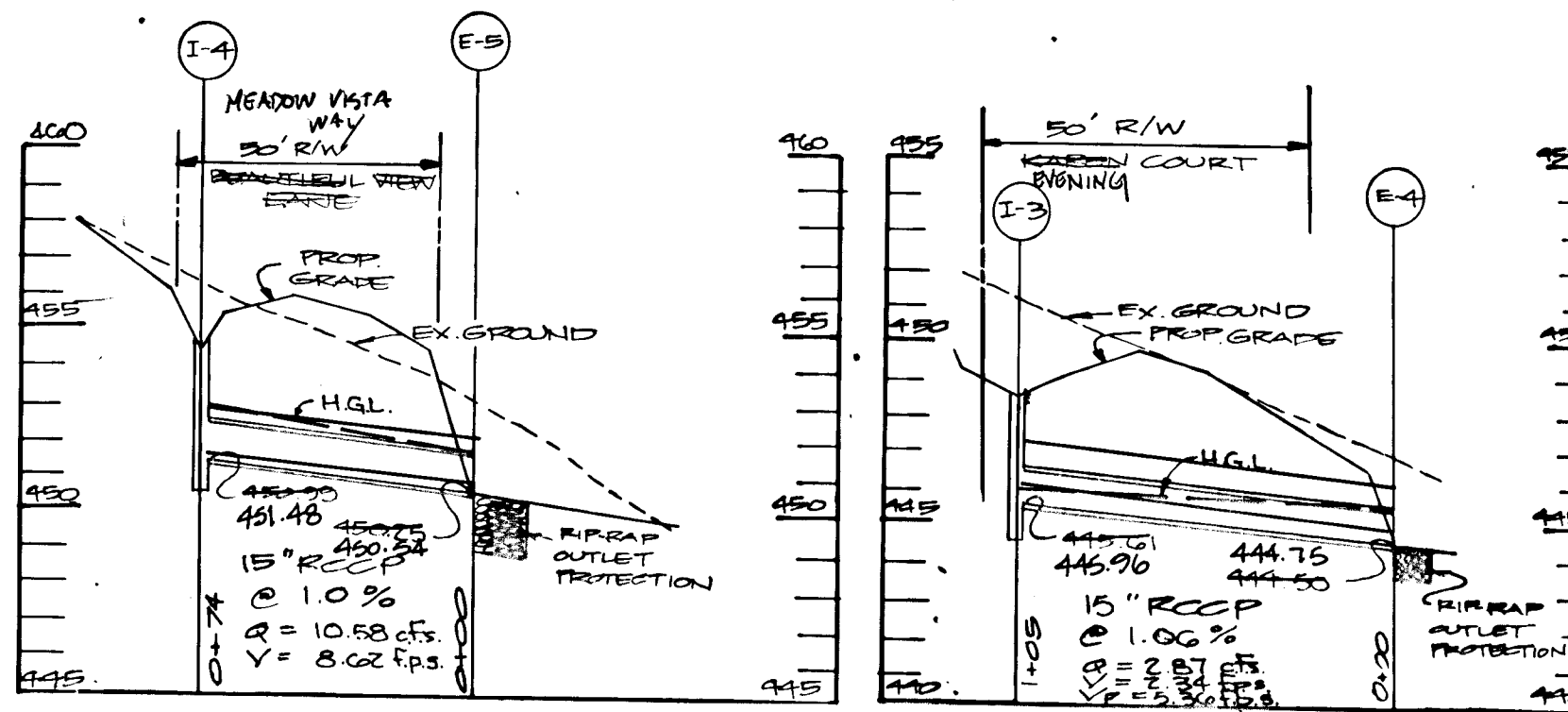
**STABILIZED ENTRANCE 1/40 SCALE**



**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- When wire fence is to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to stone size fence with tie pins.
- When the sections of filter cloth across each other they shall be overlapped by 8" inches and placed.
- Maintenance shall be performed as needed and material removed when needed to keep the silt fence.

**SILT FENCE AS-BUILT NO SCALE**



**SEDIMENT CONTROL NOTES**

- 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 (092-2637).
- 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.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, preter slopes and all slopes greater 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 Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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. 311 and Sec. 313), temporary seedings (Sec. 303) and mulching (Sec. 323). Temporary stabilization with mulch alone can only be done when recommended seedings 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: 633 acres
  - Area Disturbed: 600 acres
  - Area to be roofed or paved: 1500 acres
  - Area to be vegetatively stabilized: 9000 cu. yds.
  - Total Cut: 9000 cu. yds.
  - Total Fill: 9000 cu. yds.
- 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 controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.



BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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."

*Kandi Fleming* 4/4/88  
DEVELOPER DATE

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Arthur E. Wiegge* 4-8-88  
ENGINEER DATE

REVIEWED FOR HOWARD S.C.D. NAME

AND MEETS TECHNICAL REQUIREMENTS

*John M. Helan* 4-8-88  
U.S. SOIL CONSERVATION SERVICE DATE

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

*Stephen L. Fisher* 4/8/88  
HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*James Reiter* 4/22/88  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Walter H. ...* 4-13-88  
CHIEF, LAND DEVELOPMENT DIVISION DATE

*Francis W. ...* 4/13/88  
CHIEF, BUREAU OF HIGHWAYS DATE

*Walter H. ...* 4/14/88  
CHIEF, BUREAU OF ENGINEERING DATE

OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
% RANDALL CONSTRUCTION CO., INC.  
5501 TWIN KNOLLS ROAD, SUITE 102  
COLUMBIA, MARYLAND 21045

DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
% RANDALL CONSTRUCTION CO., INC.  
5501 TWIN KNOLLS ROAD, SUITE 102  
COLUMBIA, MARYLAND 21045

PROJECT CLEARVIEW ESTATES  
SECTION ONE  
(LOTS 1-14)

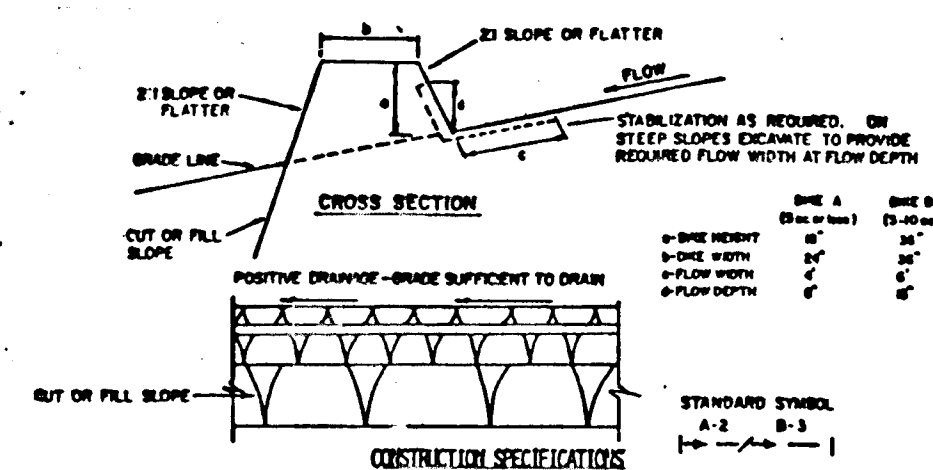
AREA: MAP 28 & 35 PARCEL 39 & 40  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE PROFILE MD. ROUTE 108 IMPROVEMENTS  
STORM DRAIN PROFILES AND 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

4-8-88  
DATE

DESIGNED BY W.C.W.  
DRAWN BY J.L.F.  
PROJECT NO 43602  
DATE JANUARY 27, 1988  
SCALE AS SHOWN  
DRAWING NO 7 OF 11



- CONSTRUCTION SPECIFICATIONS**
- ALL DIKES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT.
  - DIKES SHALL HAVE POSITIVE DRAINAGE TO A DITCH.
  - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
  - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. DIKES SHALL BE CONSTRUCTED TO A SEPARATE TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT CONTROL INSPECTOR.
  - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SETTING SPECIFICATIONS FOR SEED AND STRAW MULCH; (B) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH; (C) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH; (D) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH.

**FLM CHANNEL STABILIZATION**

TYPE OF TREATMENT	CHANNEL SIZE	DIKE A	DIKE B
1	5-3.0X	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0X	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSION, SOG 2" STONE
3	5.1-8.0X	SEED WITH JUTE, OR SOG 2" STONE	LINED RIP-RAP 8-8"
4	8.1-20X	LINED RIP-RAP 8-8"	ENGINEERING DESIGN

**EARTH DIKE**

NO SCALE

**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.

**Soil Amendments:** Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre. Harrow or disk time and 0-20-20 fertilizer into the soil to a minimum depth of 2". Lawns or high maintenance areas will be dragged and leveled with a York rake. At the time of seeding, apply 400 lbs. of 30-0-0 ureaform fertilizer and 300 lbs. of 10-20-20 or equivalent fertilizer per acre.

**Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 40 lbs. per acre (1 lb./1000 sq.-ft.) of a mixture of certified 'Merion' Kentucky bluegrass; common Kentucky bluegrass @ 40 lbs. per acre (1 lb./1000 sq.-ft.) and Red Fescue, Pennann or Jamestown @ 20 lbs. per acre (0.5 lb./1000 sq.-ft.) for the period May 1 thru July 31, seed with 60-40-20 mix as specified above and 2 lbs. per acre (0.05 lb./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 40-40-20 mix specified above and mulch with 2 concrete 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 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.

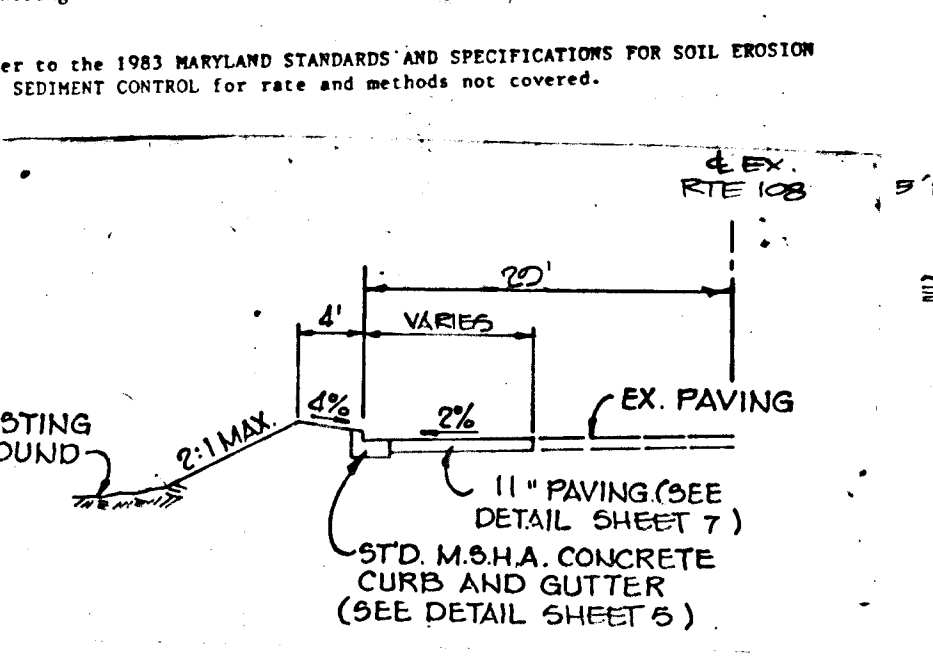
**Seedbed Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (16 lbs./1000 sq.-ft.) where soil is highly acidic, apply dolomitic limestone at the rate of 1 ton per acre.

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre annual ryegrass (3.2 lbs./1000 sq.-ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre 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.

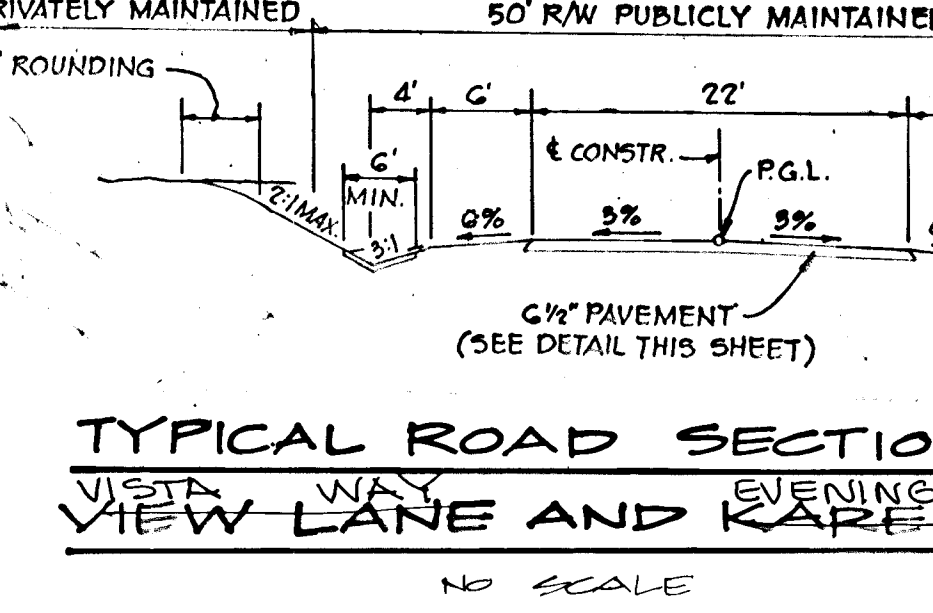
**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.-ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq.-ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or 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.



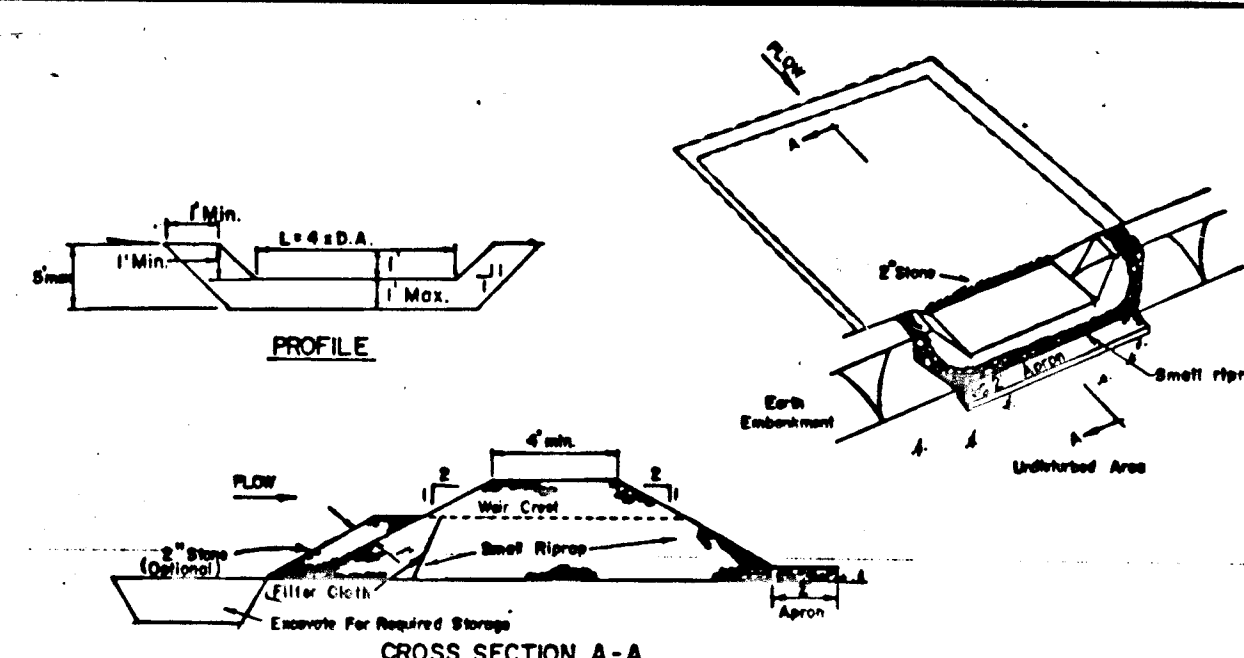
**MD ROUTE 108 ROAD WIDENING**

NO SCALE



**TYPICAL ROAD SECTION**

NO SCALE



**STONE OUTLET SEDIMENT TRAP**

OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

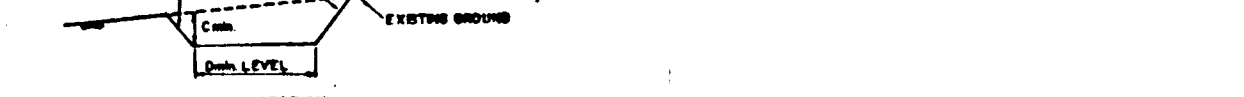
- CONSTRUCTION SPECIFICATIONS FOR ST-I**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the upgrade side of the small riprap on embedded filter cloth in the riprap.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/4 the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

**STONE OUTLET SEDIMENT TRAP**

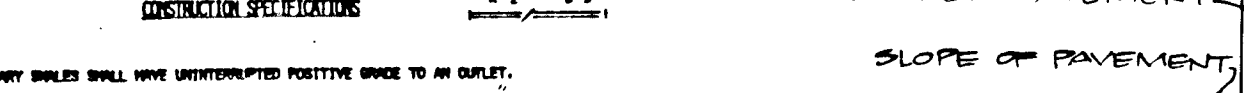
**ST-II**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**MSHA TYPE 'A' 8" CURB AND GUTTER**

NO SCALE



**TEMPORARY SWALE**

NO SCALE



**MD ROUTE 108 ROAD WIDENING**

NO SCALE



**MSHA PAVING SECTION**

NO SCALE



**MD ROUTE 108 ROAD WIDENING**

NO SCALE



**TYPICAL ROAD SECTION**

NO SCALE



**MD ROUTE 108 ROAD WIDENING**

NO SCALE



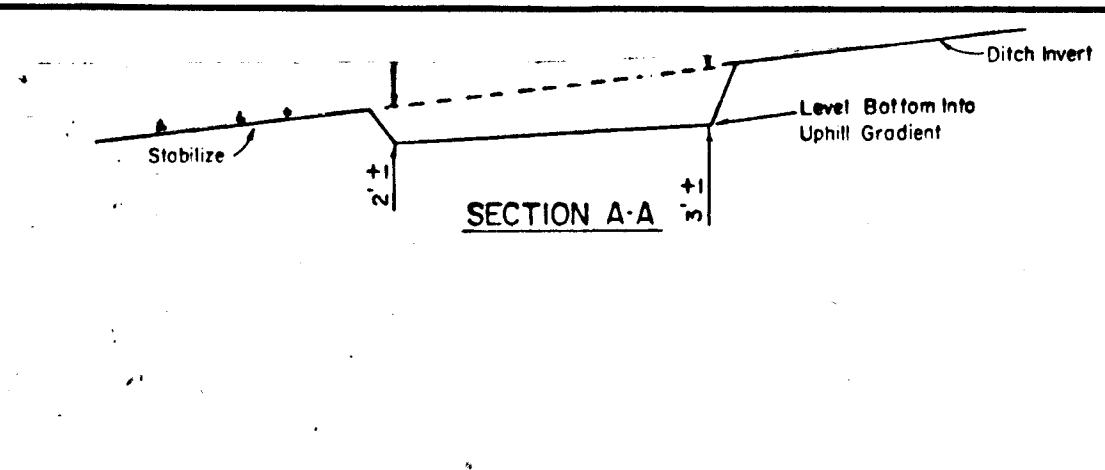
**TYPICAL ROAD SECTION**

NO SCALE



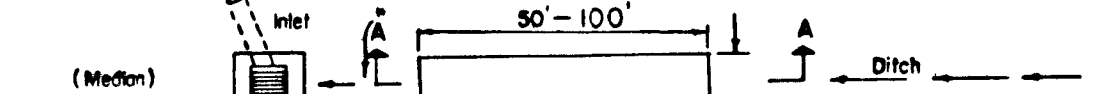
**TYPICAL ROAD SECTION**

NO SCALE



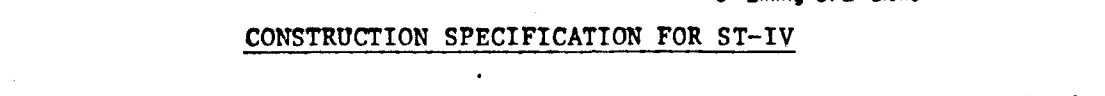
**SWALE SEDIMENT TRAP**

NO SCALE



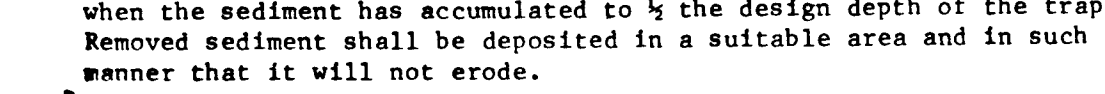
**CONSTRUCTION SPECIFICATION FOR ST-IV**

NO SCALE



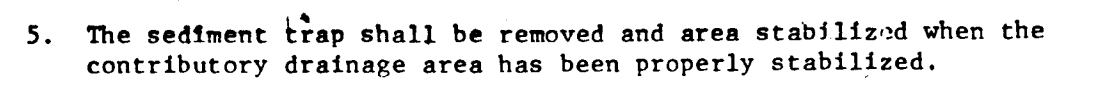
**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



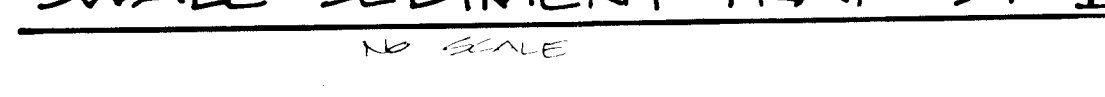
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NO SCALE



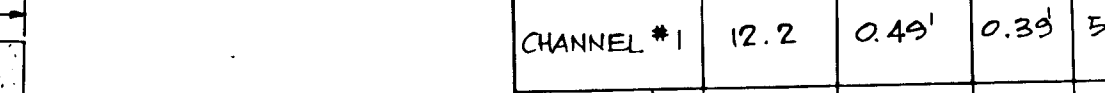
**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



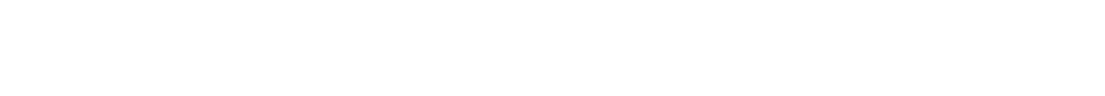
**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE



**SWALE SEDIMENT TRAP ST-IV**

NO SCALE

**SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)
- INSTALL SILT FENCE, EARTH DIKES AND STONE OUTLET SEDIMENT TRAPS. (4 DAYS)
- DRAIN THE EXISTING POND AS FOLLOWS:
  - PUMP OUT IMPOUNDED WATER. (1 DAY)
  - REMOVE SEDIMENT AND ANY OTHER UNSUITABLE MATERIAL AND PLACE AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR. (3 DAYS)
  - ROUGH GRADE POND AREA ACCORDING TO THE GRADING AND SEDIMENT CONTROL SHEET. (1 DAY)
  - STABILIZE THE DISTURBED AREA ACCORDING TO THE TEMPORARY SEEDING NOTES. (1/2 DAY)
- GRADE SITE MAINTAINING POSITIVE DRAINAGE FOR THE EARTH DIKES AND INSTALL SWALE TRAPS. (15 DAYS)
- INSTALL STORM DRAINS. (5 DAYS)
- SEEDING IN ACCORDANCE WITH THE TEMPORARY SEEDING NOTES. (1 DAY)
- COMPLETE ALL CONSTRUCTION INCLUDING PAVING. (15 DAYS)
- STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (1 DAY)
- UPON APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.

NO SCALE



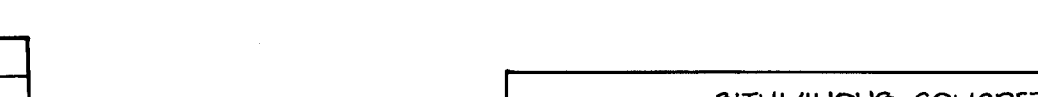
**P-2 PAVING DETAIL**

NO SCALE



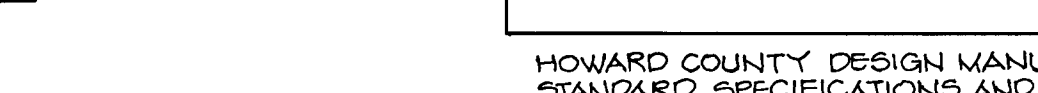
**P-2 PAVING DETAIL**

NO SCALE



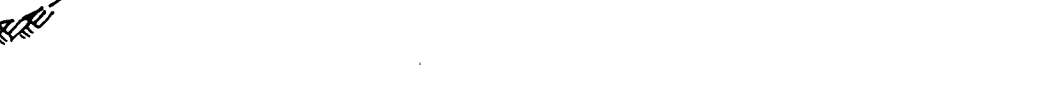
**P-2 PAVING DETAIL**

NO SCALE



**P-2 PAVING DETAIL**

NO SCALE



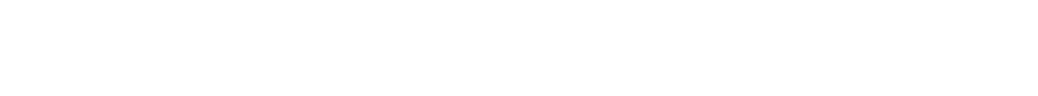
**P-2 PAVING DETAIL**

NO SCALE



**P-2 PAVING DETAIL**

NO SCALE



**P-2 PAVING DETAIL**

NO SCALE



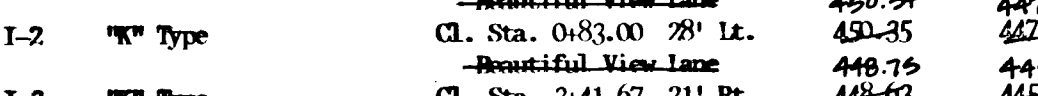
**P-2 PAVING DETAIL**

NO SCALE



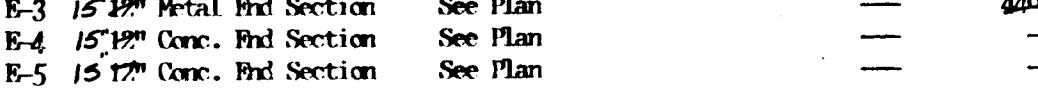
**P-2 PAVING DETAIL**

NO SCALE



**P-2 PAVING DETAIL**

NO SCALE



**P-2 PAVING DETAIL**

NO SCALE



**BY THE DEVELOPER:**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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."

*Arthur E. Muegge* 4/4/88  
DEVELOPER DATE

**BY THE ENGINEER:**

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Arthur E. Muegge* 4/4/88  
ENGINEER DATE

**REVIEWED FOR**

HOWARD S.C.D. NAME DATE

**AND MEETS TECHNICAL REQUIREMENTS**

*Arthur E. Muegge* 4/8/88  
U.S. SOIL CONSERVATION SERVICE DATE

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING**

*Arthur E. Muegge* 4/22/88  
DATE

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/13/88  
Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/19/88  
Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/13/88  
Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/13/88  
Date

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*Arthur E. Muegge* 4/13/88  
Date

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*Arthur E. Muegge* 4/13/88  
Date

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Date

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Date

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Date

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Date

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*Arthur E. Muegge* 4/13/88  
Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/13/88  
Date

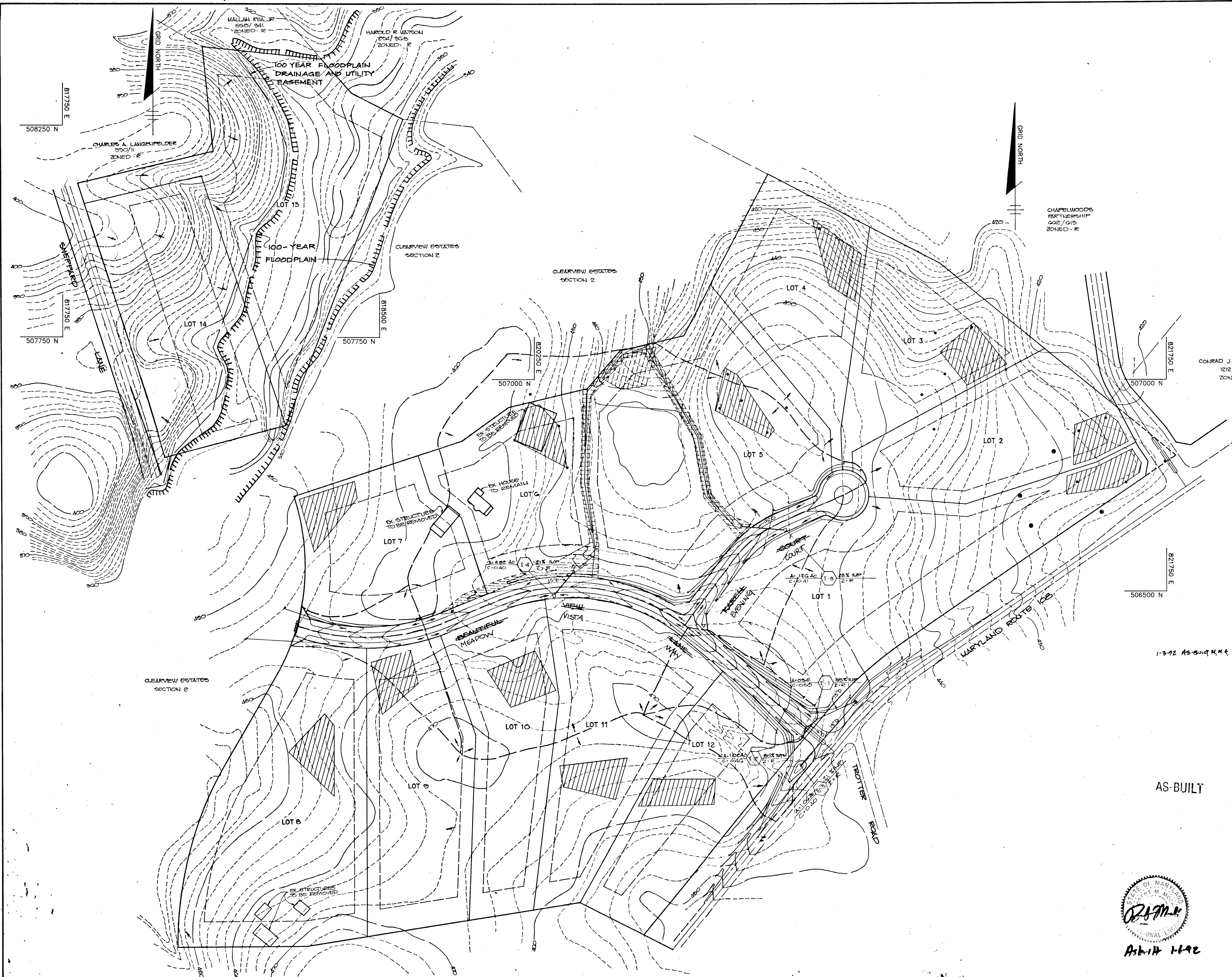
**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/13/88  
Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**

*Arthur E. Muegge* 4/13/88  
Date

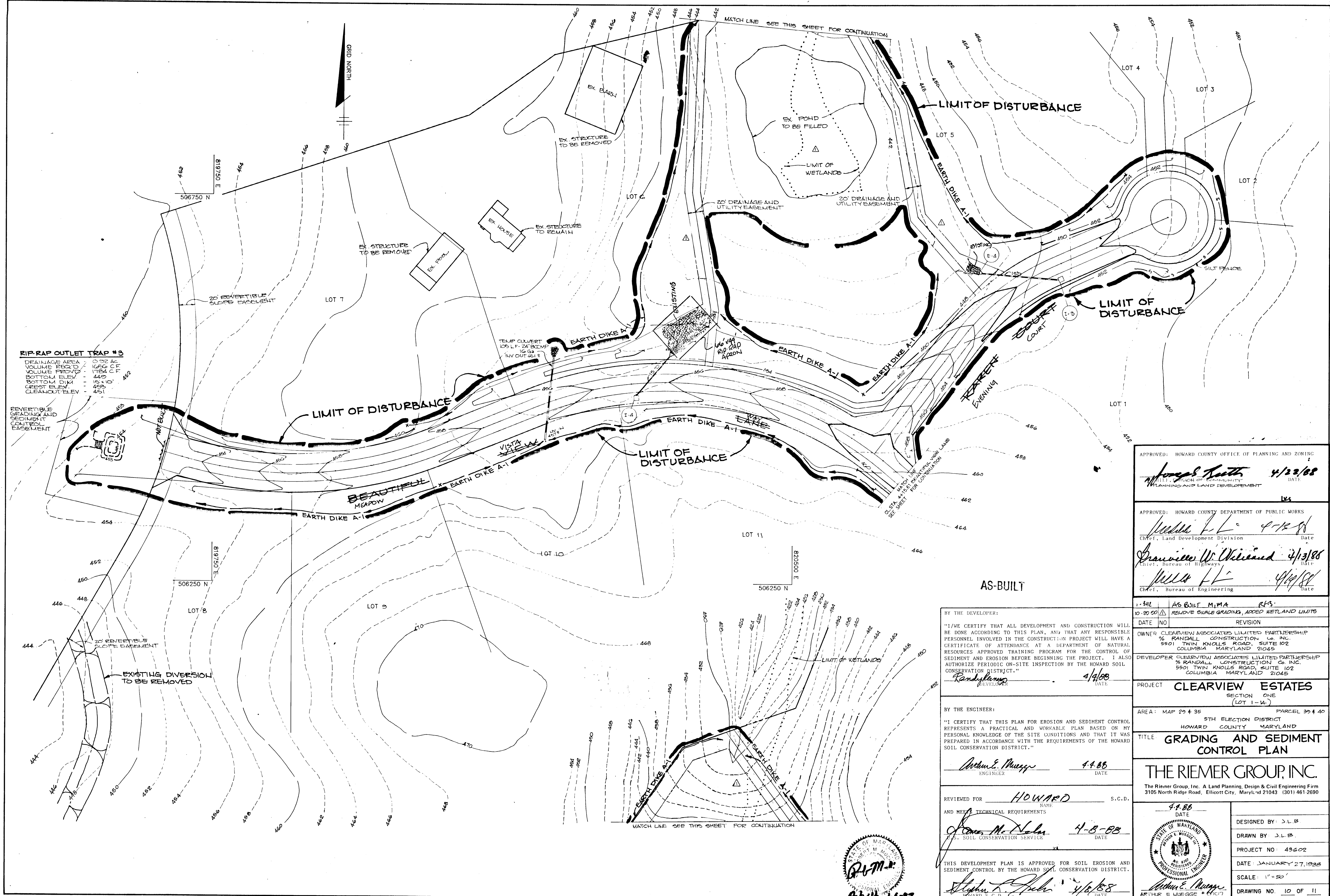




APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>Howard County</i>	4/22/88 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>William F. ...</i>	4/13/88 DATE
CHIEF, LAND DEVELOPMENT DIVISION	
<i>William W. ...</i>	4/13/88 DATE
CHIEF, BUREAU OF HIGHWAYS	
<i>William F. ...</i>	4/13/88 DATE
CHIEF, BUREAU OF ENGINEERING	
5-15-01 2	REMOVED IMPROVEMENTS TO SHEPARD LANE
5-4-00 1	REVISED RTE 103 GRADING
DATE NO	REVISION
OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP % RANDALL CONSTRUCTION CO., INC. 5501 TWIN KNOLLS ROAD, SUITE 102 COLUMBIA, MARYLAND 21045	
DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP % RANDALL CONSTRUCTION CO., INC. 5501 TWIN KNOLLS ROAD, SUITE 102 COLUMBIA, MARYLAND 21045	
PROJECT CLEARVIEW ESTATES SECTION ONE (LOTS 1-14)	
AREA: MAP 25 & 35 PARCEL 294 40 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	
4.4.88 DATE	DESIGNED BY: W.C.W.
	DRAWN BY: J.L.D.
	PROJECT NO: 43202
	DATE: JANUARY 27, 1988
	SCALE: 1"=100'
DRAWING NO. 9 OF 11	



As-Built 1-6-88



**RIP-RAP OUTLET TRAP #3**  
 DRAINAGE AREA - 0.92 AC  
 VOLUME REQ'D - 1650 C.F.T.  
 VOLUME PROVIDED - 1784 C.F.T.  
 BOTTOM ELEV. - 449  
 BOTTOM DIA. - 15' x 10'  
 CREST ELEV. - 453  
 CLEANOUT ELEV. - 451

REVERSIBLE  
 GRADING AND  
 SEDIMENT  
 CONTROL  
 EASEMENT

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Joseph Smith* 4/22/88  
 PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William F. L.* 4-12-88  
 CHIEF, Land Development Division

*Francis W. Williams* 4/13/88  
 CHIEF, Bureau of Highways  
*William F. L.* 4/14/88  
 CHIEF, Bureau of Engineering

1-34L AS-BUILT M.I.M.A. R.F.S.  
 10-20-00 REMOVE SWALE GRADING, ADDED WETLAND LIMITS  
 DATE NO REVISION

OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
 % RANDALL CONSTRUCTION CO. INC.  
 5501 TWIN KNOLLS ROAD, SUITE 102  
 COLUMBIA MARYLAND 21045

DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
 % RANDALL CONSTRUCTION CO. INC.  
 5501 TWIN KNOLLS ROAD, SUITE 102  
 COLUMBIA MARYLAND 21045

PROJECT CLEARVIEW ESTATES  
 SECTION ONE  
 (LOT 1-4)

AREA: MAP 29 & 35 PARCEL 39 & 40  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY MARYLAND

TITLE GRADING AND SEDIMENT  
 CONTROL PLAN

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

4-4-88 DATE  
 DESIGNED BY: J.L.B.  
 DRAWN BY: J.L.B.  
 PROJECT NO: 43602  
 DATE: JANUARY 27, 1988  
 SCALE: 1" = 50'  
 DRAWING NO. 10 OF 11

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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."  
*Randy Lanning* 4/14/88  
 DEVELOPER DATE

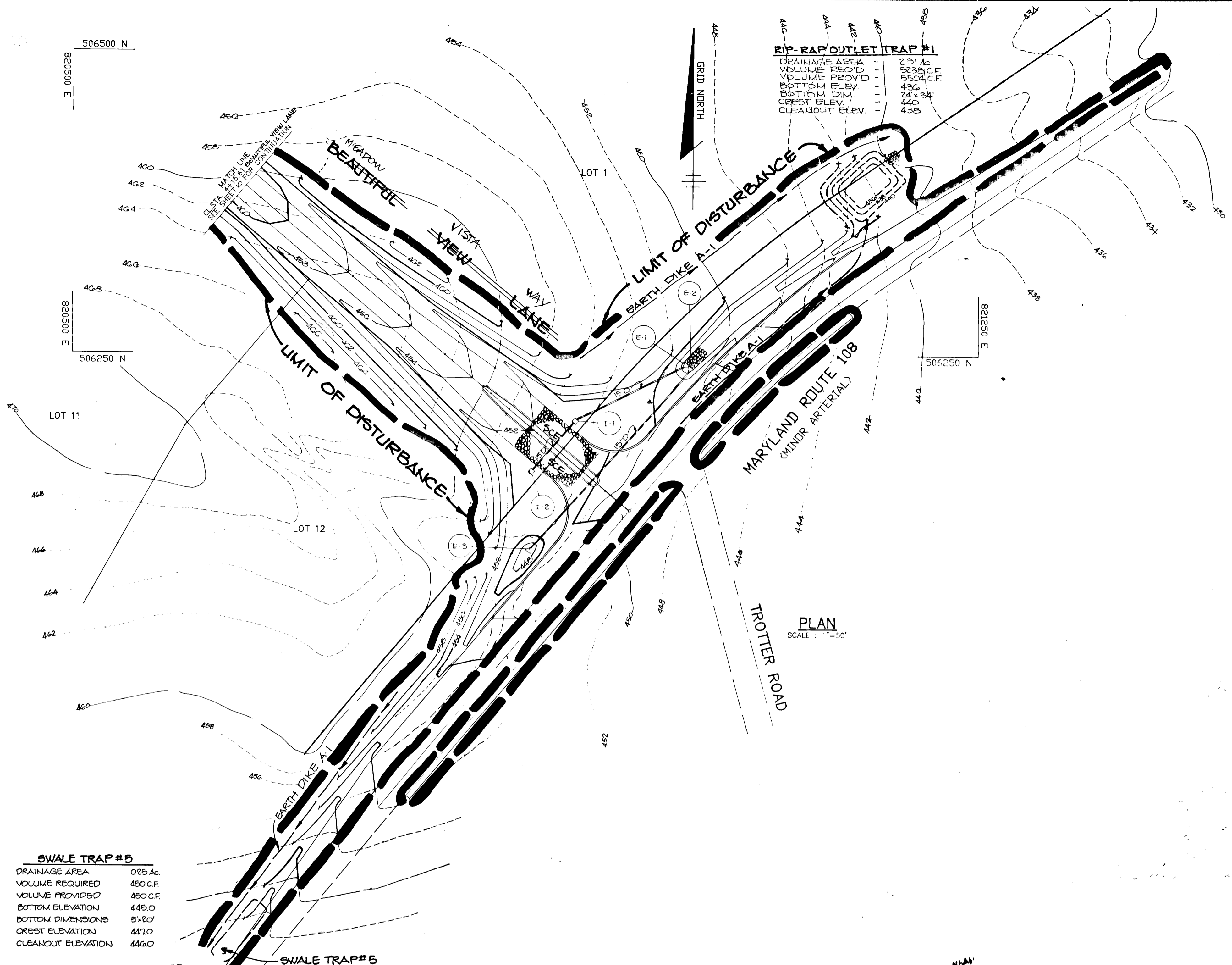
BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*Arthur E. Muegg* 4-4-88  
 ENGINEER DATE

REVIEWED FOR HOWARD S.C.D.  
 AND MEET TECHNICAL REQUIREMENTS  
*James M. Nolan* 4-8-88  
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Stephen L. Fisher* 4/8/88  
 HOWARD S.C.D. DATE

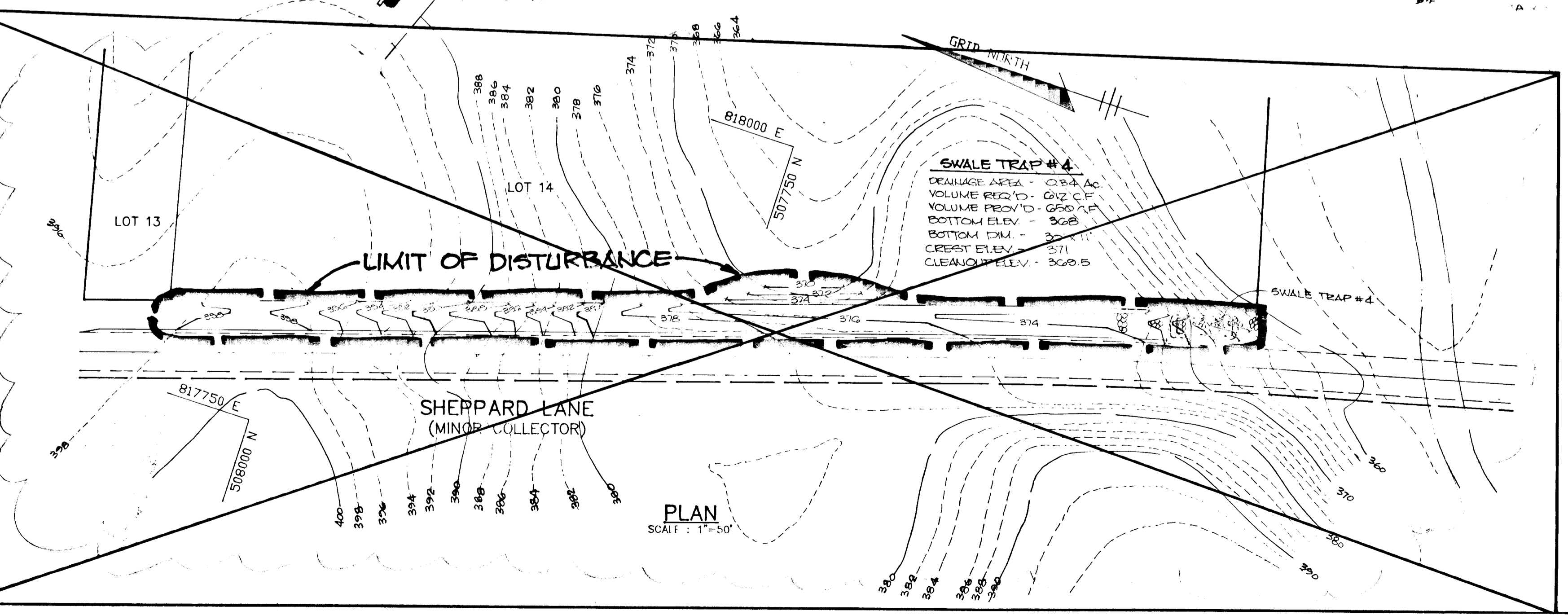


1353



SWALE TRAP #5	
DRAINAGE AREA	0.25 AC.
VOLUME REQUIRED	450 C.F.
VOLUME PROVIDED	450 C.F.
BOTTOM ELEVATION	445.0
BOTTOM DIMENSIONS	5' x 20'
CREST ELEVATION	447.0
CLEANOUT ELEVATION	446.0

SWALE TRAP #4	
DRAINAGE AREA	0.14 AC.
VOLUME REQ'D	612 C.F.
VOLUME PROVIDED	650 C.F.
BOTTOM ELEV.	362.8
BOTTOM DIM.	5' x 11'
CREST ELEV.	371
CLEANOUT ELEV.	369.5



BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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."  
*Randy Lewis* DEVELOPER 4/4/88 DATE

BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*Arthur E. Muegge* ENGINEER 4-4-88 DATE

REVIEWED FOR HOWARD S.C.D. NAME  
 AND MEET TECHNICAL REQUIREMENTS  
*James M. Nelson* 11-8-88 DATE  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Stephen L. Abula* 4-3-88 DATE  
 HOWARD S.C.D.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Joseph S. Latta* 4/22/88 DATE  
 PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Wells H* 4-12-88 Date  
 Chief, Land Development Division  
*Lawrence D. Wickens* 4/13/88 Date  
 Chief, Bureau of Highways  
*Wells H* 4/14/88 Date  
 Chief, Bureau of Engineering

DATE	NO.	REVISION
5-18-01	2	REVISED IMPROVEMENTS TO SHEPPARD LANE
5-4-00	1	REVISE GRADING & ADD SWALE TRAP ALONG RTE. 108

OWNER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
 % RANDALL CONSTRUCTION CO. INC.  
 5501 TWIN KNOLLS ROAD, SUITE 102  
 COLUMBIA, MARYLAND 21045

DEVELOPER CLEARVIEW ASSOCIATES LIMITED PARTNERSHIP  
 % RANDALL CONSTRUCTION CO. INC.  
 5501 TWIN KNOLLS ROAD, SUITE 102  
 COLUMBIA, MARYLAND 21045

PROJECT **CLEARVIEW ESTATES**  
 SECTION ONE  
 (LOTS 1-14)

AREA: MAP 29 & 35 PARCEL 39 & 40  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE **GRADING AND SEDIMENT CONTROL PLAN**

**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

4-4-88 DATE  
 DESIGNED BY: W.C.W.  
 DRAWN BY: J.L.B.  
 PROJECT NO: 43602  
 DATE: JANUARY 27, 1988  
 SCALE: 1"=50'  
 DRAWING NO. 11 OF 11

