

SHEET INDEX	
1	TITLE SHEET
2	PLAN AND PROFILE OF MD. ROUTE 32 IMPROVEMENTS
3	PLAN AND PROFILE OF COVENTRY MEADOWS DRIVE
4	PLAN AND PROFILE OF COVENTRY MEADOWS DRIVE
5	GRADING AND SEDIMENT CONTROL PLAN
6	PROFILES, GRADING AND SEDIMENT CONTROL PLAN
7	DRAINAGE AREA MAP AND DETAIL SHEET

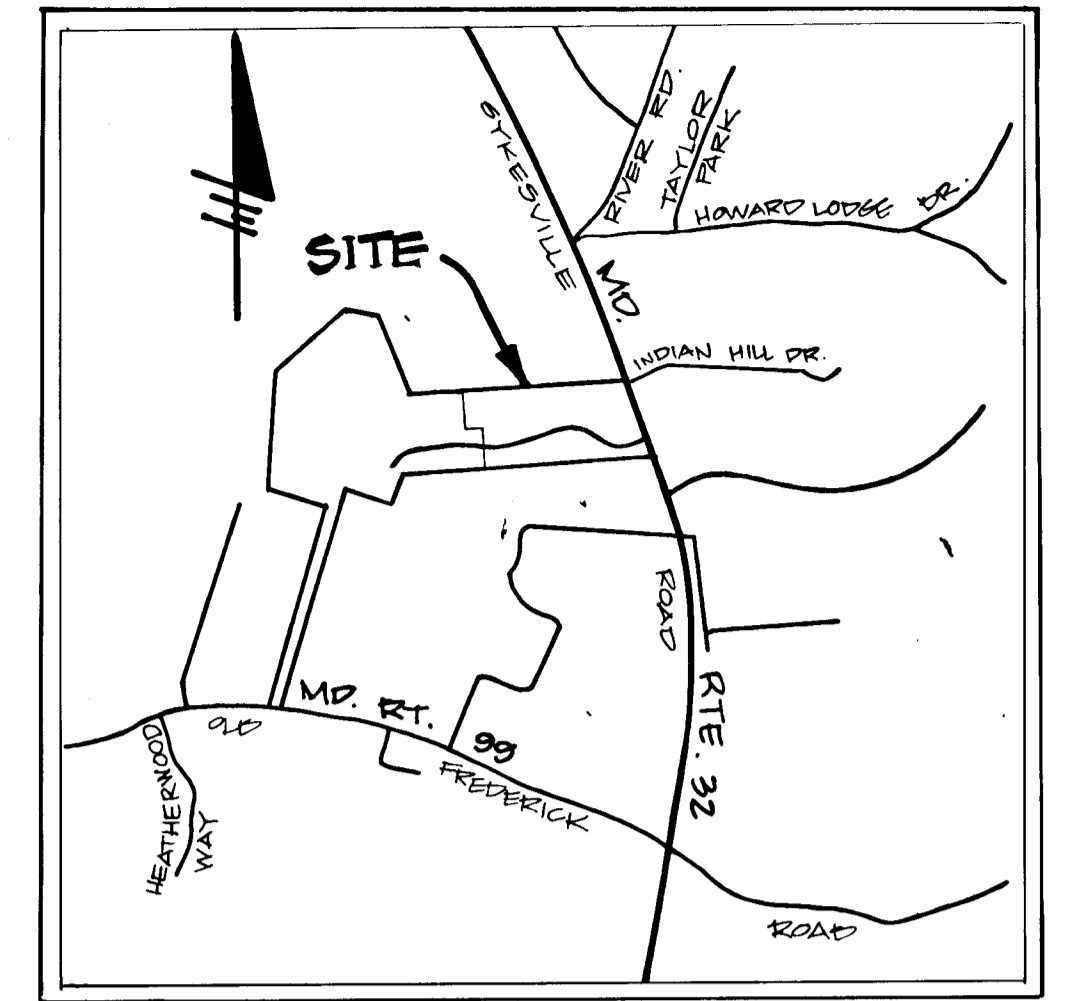
ROADWAYS AND STORM DRAINS

COVENTRY MEADOWS

SECTION ONE

3RD 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 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

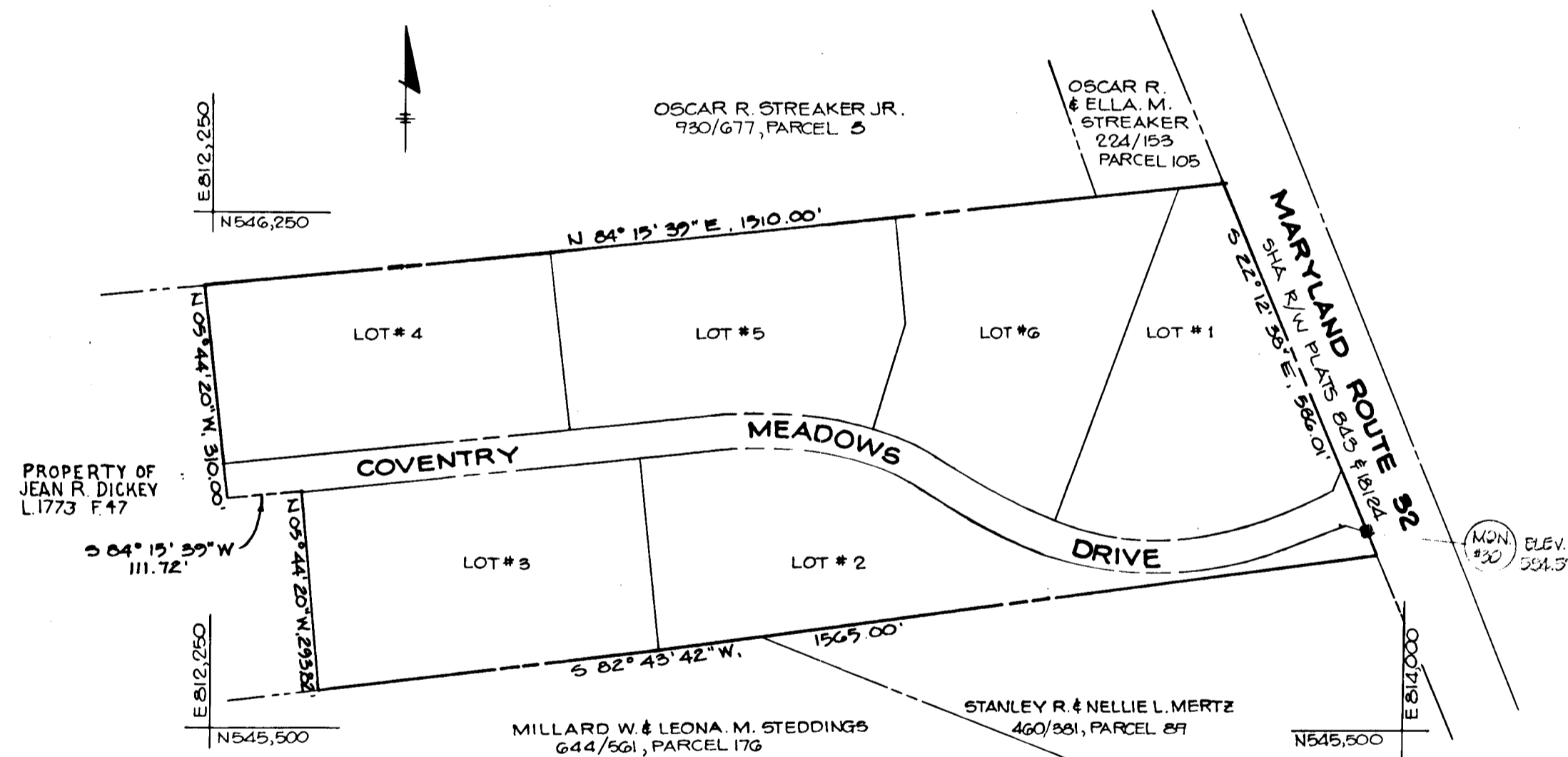
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS.
- STORM DRAIN BACKFILL WITHIN ROADWAYS, UNDER STRUCTURES AND FOR STORM DRAIN TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF MAXIMUM DRY DENSITY AS DETERMINED 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 C2-01 (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 APRIL, 1990 BY THE RIEMER GROUP INC.
- 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 150' RIGHT-OF-WAYS 50 M.P.H.

- WP-88-123 PROVIDES WAIVER OF SECTION 10.120 OF THE HOWARD COUNTY SUBDIVISION AND LAND REGULATIONS WHICH REQUIRE SUBMITTAL OF A PRELIMINARY PLAN.
- DRIVEWAY CULVERTS WILL BE REQUIRED FOR LOT # 1, 2, 5 & 6 AS FOLLOWS:

LOT	PIPE SIZE
1	18" CMP
2	18" CMP
5	24" CMP
6	18" CMP

* TOPO 800' WIDE ALONG E. OF PROPOSED COVENTRY MEADOWS DRIVE TAKEN FROM SURVEY.



PLAN
SCALE: 1"=200'

HORIZONTAL & VERTICAL CONTROL USE FOR ADJUTANT WORKS

BM # 0100001 ELEV. 618.850
 1/4" IN 1/4" MONUMENT 24" DE-QU SURFACE
 200' SOUTH OF INTERSECTION OF ROUTE 32
 RE. 001 M.L. 00

BM # 1 ELEV. 619.010
 1/4" IN 1/4" MON. SET ON WEST SIDE OF
 PAVING ON ROUTE 32, 100' NORTHEAST OF
 POWER POLE #11 02

BM # 2 ELEV. 604.011
 1/4" IN 1/4" MON. SET ON WEST SIDE OF
 PAVING ON ROUTE 32, 70' NORTHEAST OF
 POWER POLE #11 02

AS-BUILT CERTIFICATION

1.7.98

JAYKANT D. PAREKH #10148 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

David S. Campbell 4/1/98 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Land Development Division DATE

James H. ... DATE
Chief, Bureau of Highways

Richard E. ... DATE
Chief, Bureau of Engineering

DATE	NO.	REVISION

OWNER/ THE DICKEY FAMILY % WALTER JOHNSON DEVELOPER
PRUDENTIAL-BACHE SECURITIES
290 W. PRATT ST. BALTIMORE MD 21201

PROJECT: **COVENTRY MEADOWS**
(SECTION ONE LOTS 1-6)

AREA: TAX MAP NO. 9 PARCEL NO. 71
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **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

6.10.89 DATE

5-88-70, 8-84, 09-FR-84-29, VR-84-28
WP-88-100, WP-88-103

DESIGNED BY: C.J.R.

DRAWN BY: J.L.B.

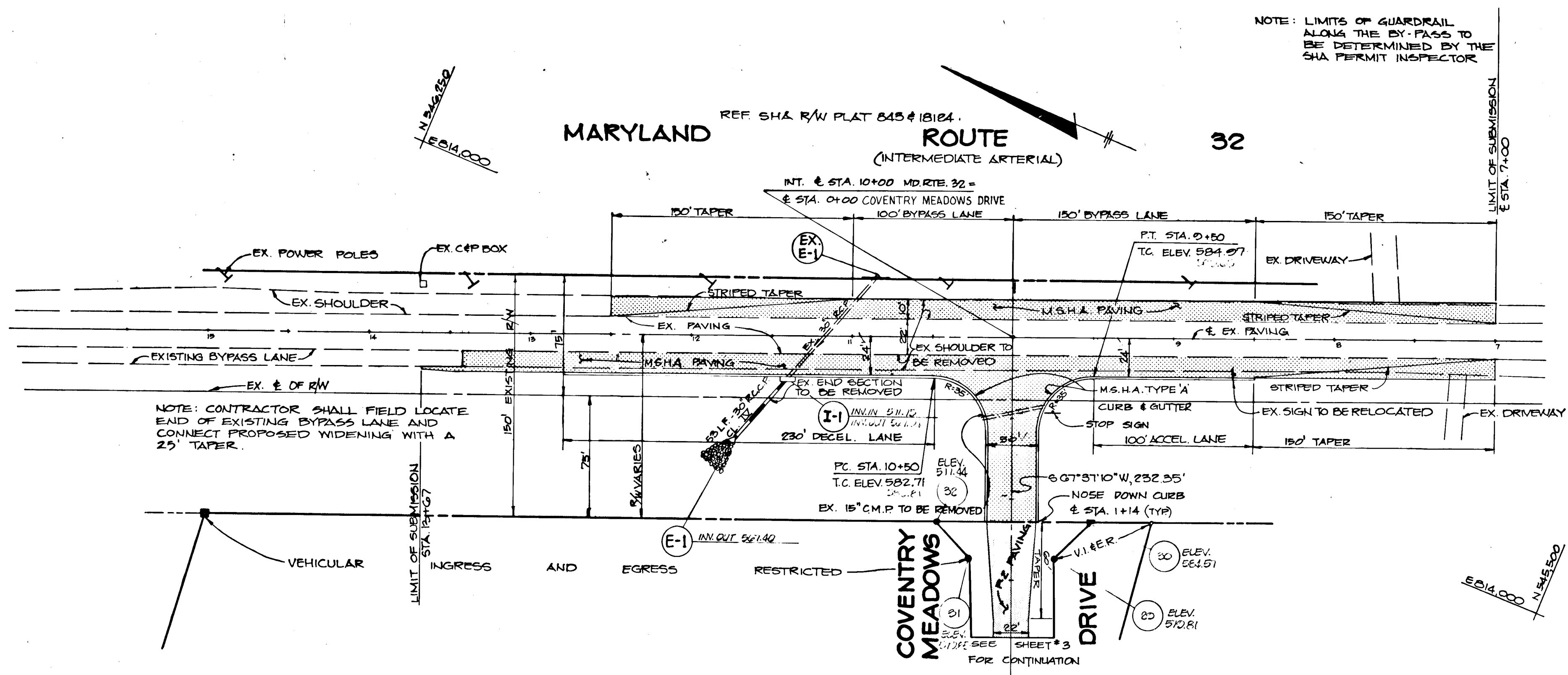
PROJECT NO: 50702

DATE: JAN. 26, 1989

SCALE: AS SHOWN

DRAWING NO. 1 OF 7

MARYLAND ROUTE 32
(INTERMEDIATE ARTERIAL)

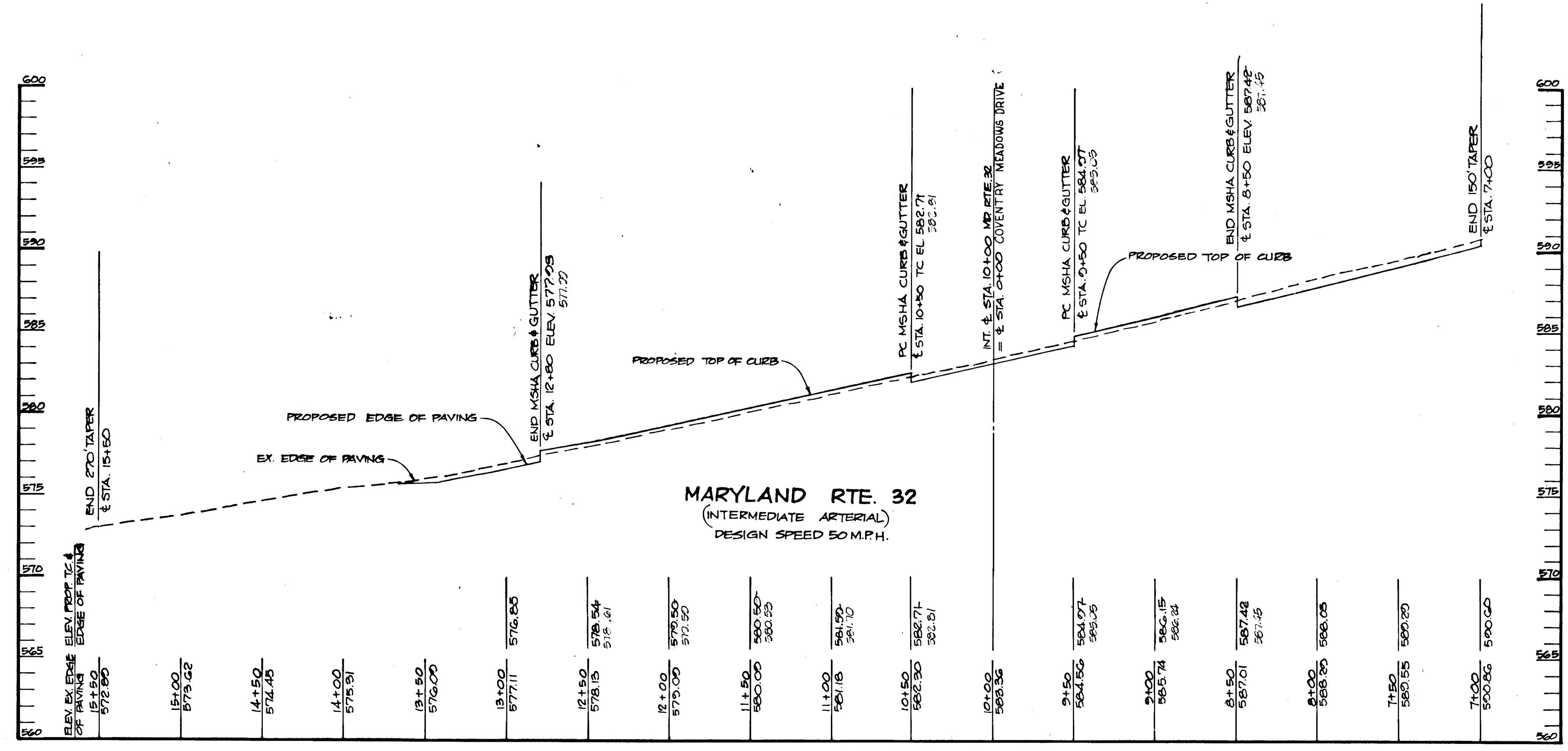


PLAN
SCALE: 1" = 50'

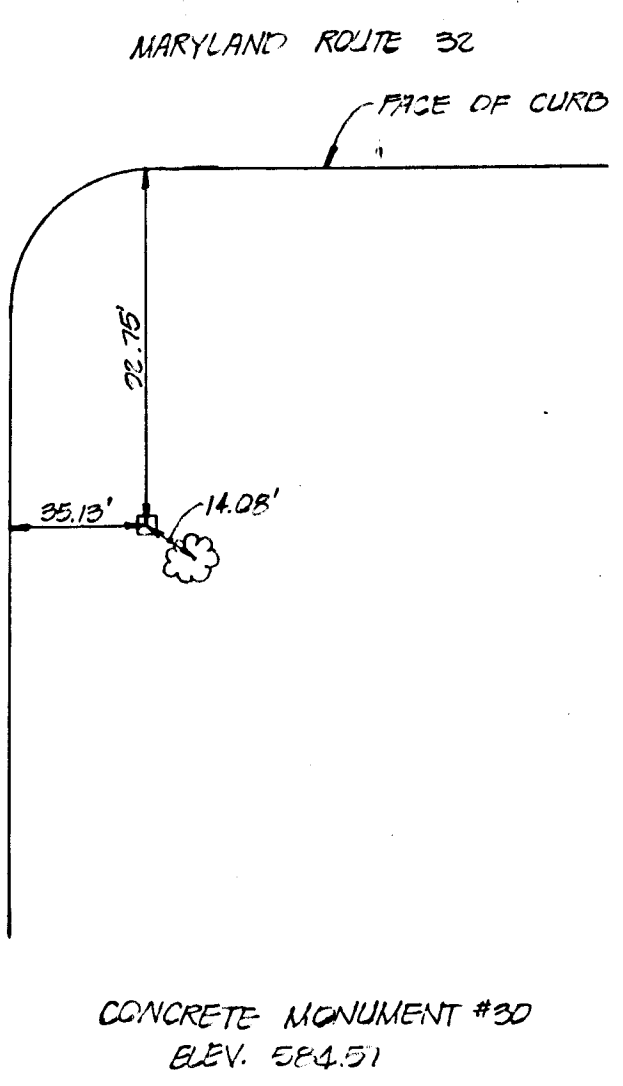
LEGEND

- MSHA PAVING (SEE DETAIL SHEET 7)
- P-2 PAVING (SEE DETAIL SHEET 7)

- DENOTES 4"x4"x36" CONC. MONUMENT
- DENOTES 12" Ø PIPE OR IRON PIN SET



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



CONCRETE MONUMENT #30
ELEV. 574.51

AS-BUILT CERTIFICATION

JAYKANT D. PAREKH #10148 DATE 1-7-93

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Janice S. Taylor 6/2/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul Blum 6/2/89
Chief, Land Development Division
Drainville W. Ueland 4/5/89
Chief, Bureau of Highways
Richard E. Reddy 6-6-89
Chief, Bureau of Engineering

DATE	NO.	REVISION

OWNER: THE DICKEY FAMILY % WALTER JOHNSON
DEVELOPER: PRUDENTIAL-BACHE SECURITIES
250 W. PRATT ST. BALTIMORE, MD 21201

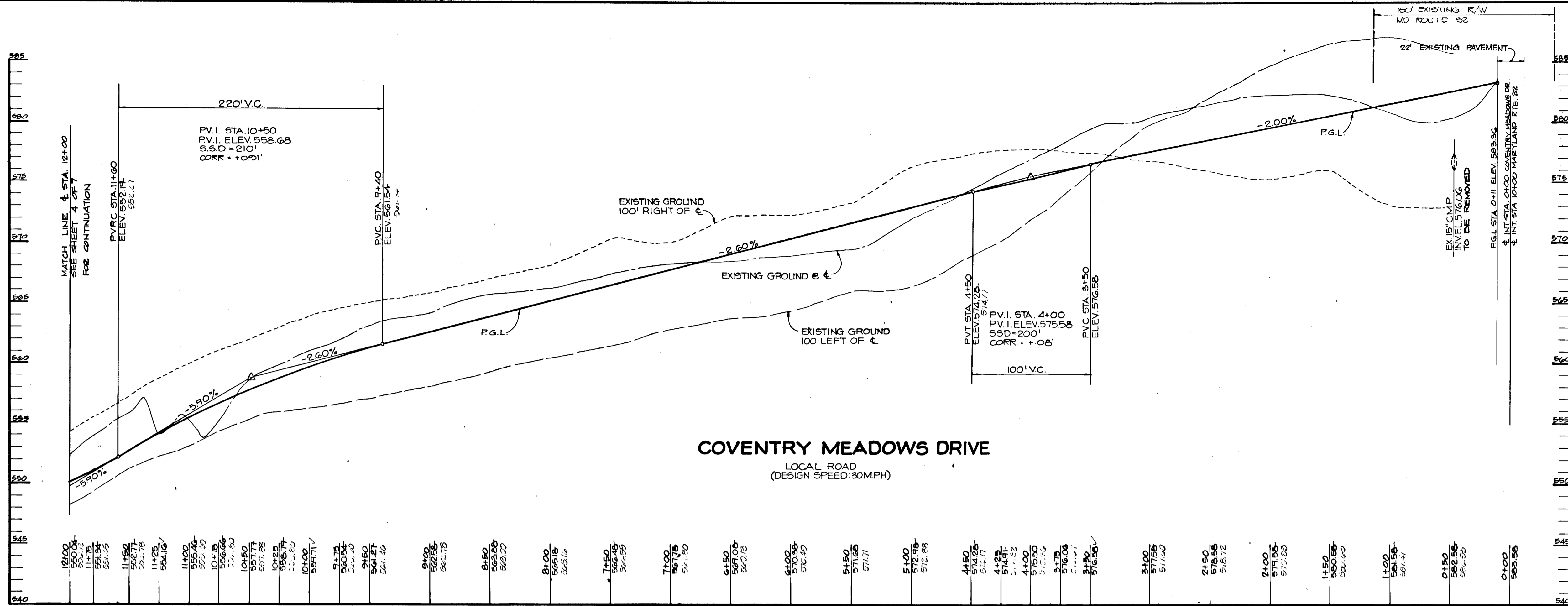
PROJECT: COVENTRY MEADOWS
(SECTION ONE LOTS 1-9)

AREA TAX MAP No. 2 PARCEL No. 71
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

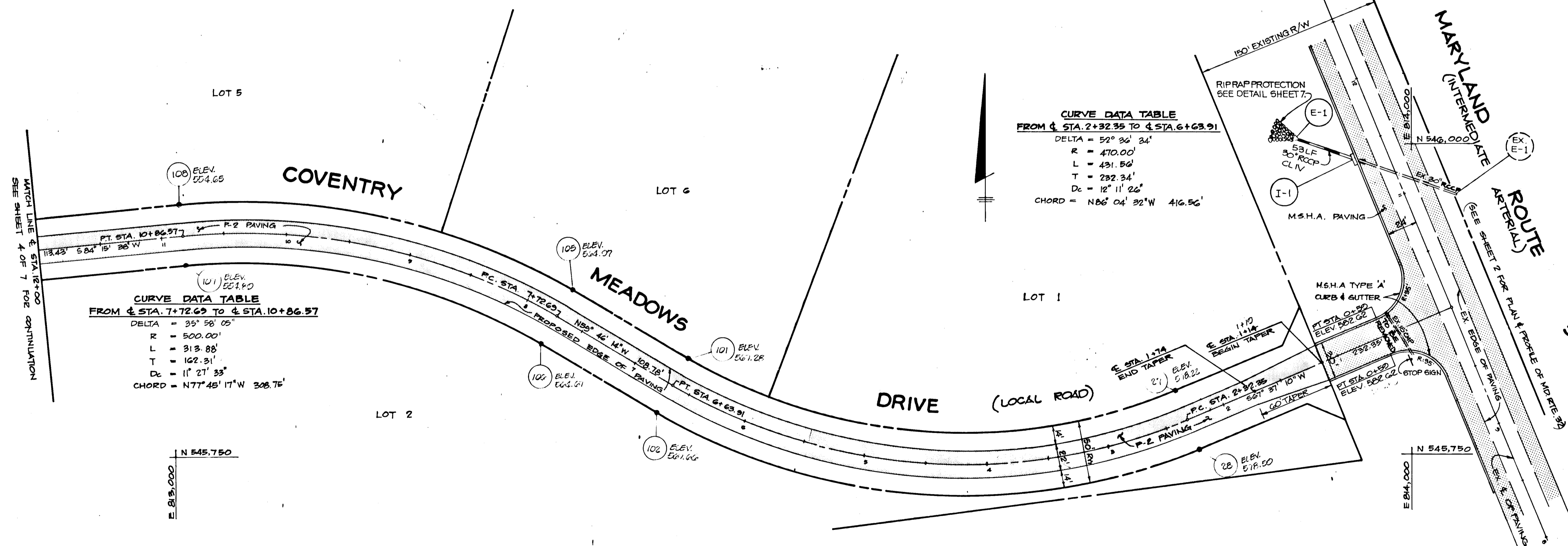
TITLE: PLAN AND PROFILE OF MD. ROUTE 32 IMPROVEMENTS

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2890

DATE: 2-10-89
DESIGNED BY: M.C.M.
DRAWN BY: D.B.S.
PROJECT NO: 50702
DATE: JAN. 20, 1990
SCALE: AS SHOWN
DRAWING NO. 2 OF 7



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



CURVE DATA TABLE
 FROM STA. 7+72.69 TO STA. 10+86.97

DELTA	= 35° 58' 05"
R	= 500.00'
L	= 313.88'
T	= 162.31'
Dc	= 11' 21' 33"
CHORD	= N77° 45' 17" W 308.75'

CURVE DATA TABLE
 FROM STA. 2+32.35 TO STA. 6+69.91

DELTA	= 52° 36' 34"
R	= 470.00'
L	= 431.56'
T	= 232.34'
Dc	= 12' 11' 26"
CHORD	= N86° 04' 32" W 416.56'

LEGEND

- M.S.H.A. PAVING SECTION (SEE DETAIL SHEET 7)
- P-2 PAVING (SEE DETAIL SHEET 7)

PLAN
 SCALE 1" = 50'

- DENOTES 4" x 4" x 24" CONC. MONUMENT
- DENOTES 1/2" x 1/2" x 12" OR IRON PIN SET

AS-BUILT CERTIFICATION

DATE: 1.7.93
 JAYKANT D. PAREKH #10168

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Jay S. Taylor 6/2/89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul D. ... 6/2/89
 Chief, Land Development Division

Frederick W. ... 6/15/89
 Chief, Bureau of Highways

James S. ... 6/15/89
 Chief, Bureau of Engineering

DATE	NO.	REVISION

OWNER / THE DICKEY FAMILY % WALTER JOHNSON
 DEVELOPER PRUDENTIAL-BACHE SECURITIES
 250 W. PRATT ST. BALTIMORE, MD 21201

PROJECT: **COVENTRY MEADOWS**
 (SECTION ONE LOTS 1-6)

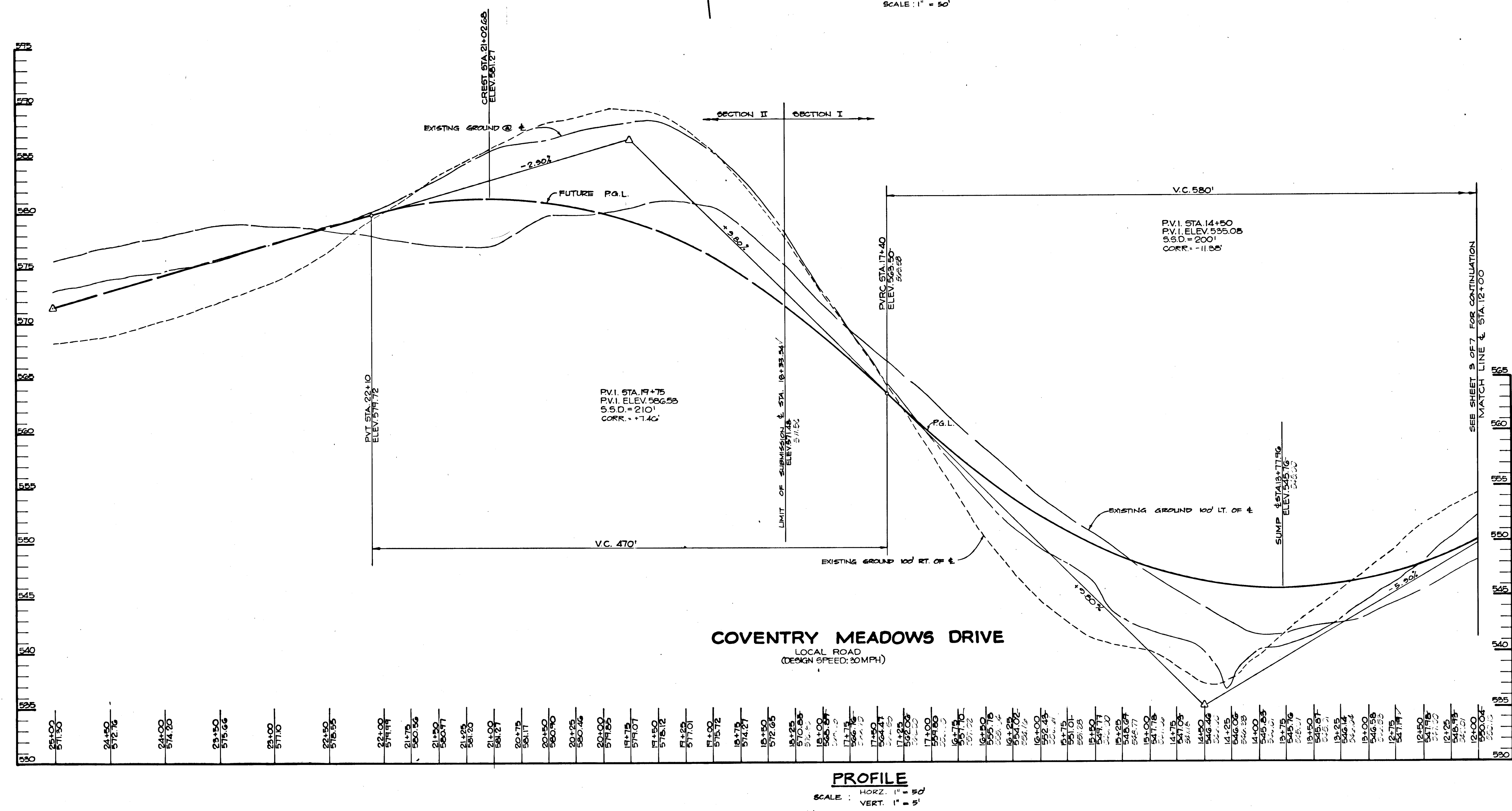
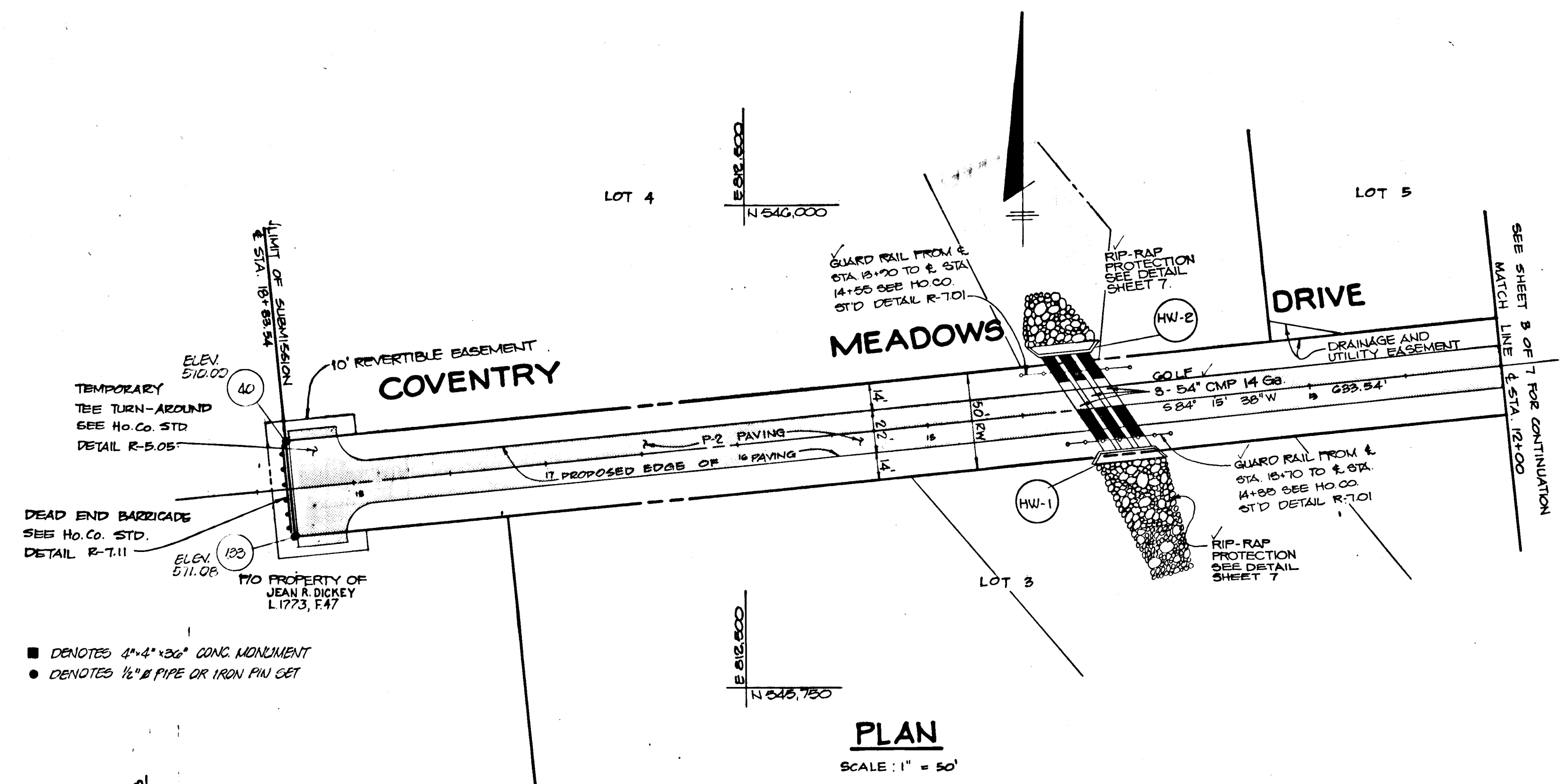
AREA TAX MAP No. 9 PARCEL No. 71
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **PLAN AND PROFILE OF COVENTRY MEADOWS DRIVE**

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: 2/10/89
 DESIGNED BY: M.C.M.
 DRAWN BY: D.B.S.
 PROJECT NO: 50702
 DATE: JAN. 20, 1989
 SCALE: AS SHOWN
 DRAWING NO. 3 OF 7

DATE: 12.22.92



AS-BUILT CERTIFICATION

STATE OF MARYLAND
J. Farrell
1-7-93
JAYKANT D. PAREKH #10148 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Prachi S. Singh 6/15/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul M. Lerner 6/12/89
Chief, Land Development Division
Dorville W. Weiland 6/15/89
Chief, Bureau of Highways
G. C. ... 6/6/89
Chief, Bureau of Engineering

DATE	NO.	REVISION

OWNER/ DEVELOPER: THE DICKEY FAMILY % WALTER JOHNSON
PRUDENTIAL-BACHE SECURITIES
250 W. PRATT ST. BALTIMORE, MD 21201

PROJECT: **COVENTRY MEADOWS**
(SECTION ONE LOTS 1-6)

AREA TAX MAP No. 9 PARCEL No. 71
32D ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

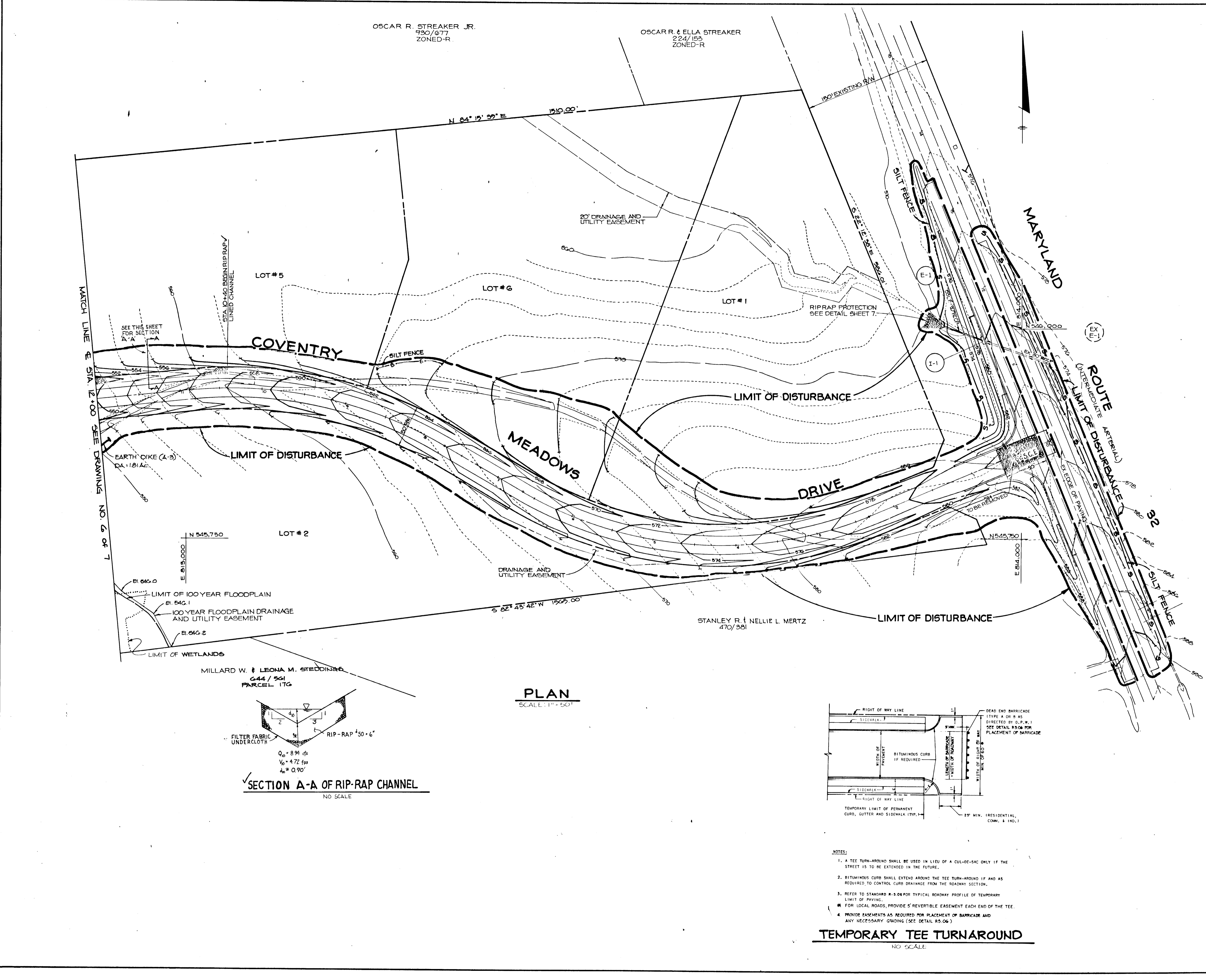
TITLE: **PLAN AND PROFILE OF COVENTRY MEADOWS DRIVE**

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: 8-10-89
DESIGNED BY: M.C.M.
DRAWN BY: D.B.S.
PROJECT NO: 50702
DATE: JAN 20, 1990
SCALE: AS SHOWN
DRAWING NO. 4 OF 7

ARTHUR E. MUEGGEL #8107

1447



OSCAR R. STRECKER JR.
730/677
ZONED-R

OSCAR R. & ELLA STRECKER
224/155
ZONED-R

N 84° 15' 39" E 1510.00'

130' EXISTING R/W

MARYLAND

MATCH LINE @ STA. 12+00 SEE DRAWING NO. 6 OF 7

SEE THIS SHEET FOR SECTION A-A

STA. 10+40 BEGIN RIP-RAP LINED CHANNEL

LOT #5

LOT #6

LOT #1

COVENTRY

SILT FENCE

DRIVE

LIMIT OF DISTURBANCE

MEADOWS

LIMIT OF DISTURBANCE

LOT #2

DRAINAGE AND UTILITY EASEMENT

STANLEY R. & NELLIE L. MERTZ
470/381

LIMIT OF DISTURBANCE

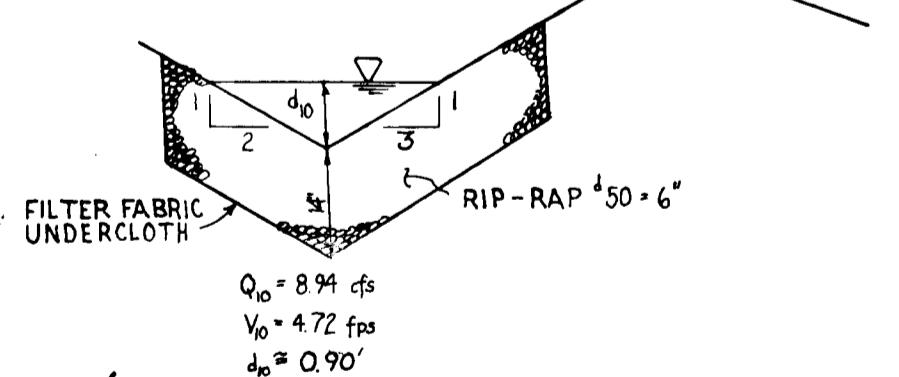
ROUTE 20 (UNIMPROVED LATE ARTERIAL)

N 545.750
E 513.000

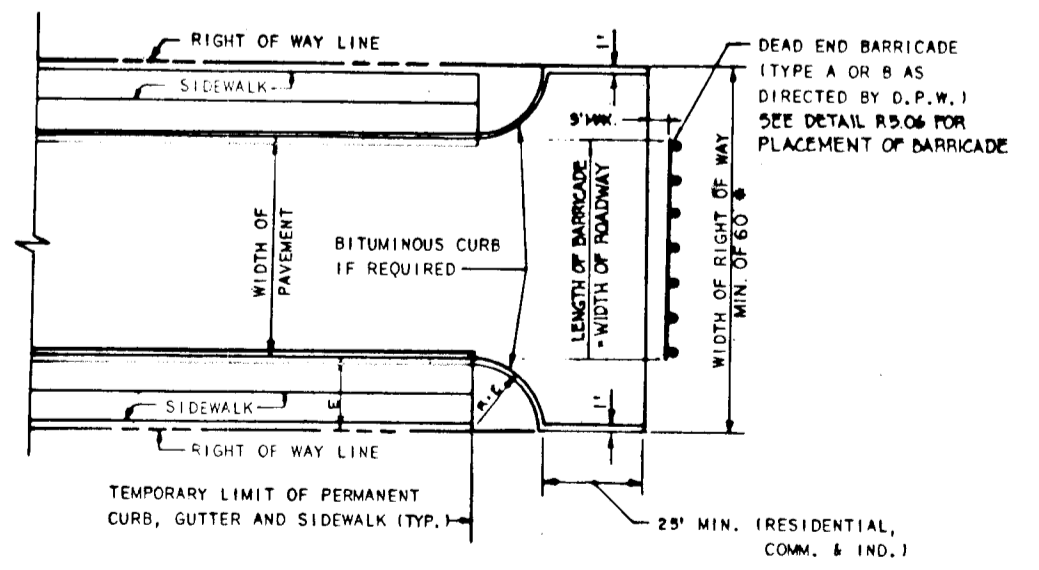
LIMIT OF 100 YEAR FLOODPLAIN
E1.546.1
100 YEAR FLOODPLAIN DRAINAGE AND UTILITY EASEMENT
E1.546.2

LIMIT OF WETLANDS

MILLARD W. & LEONA M. STEDDING
644 / 561
PARCEL 176



PLAN
SCALE: 1" = 50'



- NOTES:
1. A TEE TURN-AROUND SHALL BE USED IN LIEU OF A CUL-DE-SAC ONLY IF THE STREET IS TO BE EXTENDED IN THE FUTURE.
 2. BITUMINOUS CURB SHALL EXTEND AROUND THE TEE TURN-AROUND IF AND AS REQUIRED TO CONTROL CURB DRAINAGE FROM THE ROADWAY SECTION.
 3. REFER TO STANDARD R-5.08 FOR TYPICAL ROADWAY PROFILE OF TEMPORARY LIMIT OF PAVING.
 4. FOR LOCAL ROADS, PROVIDE 5' REVERTIBLE EASEMENT EACH END OF THE TEE.
 5. PROVIDE EASEMENTS AS REQUIRED FOR PLACEMENT OF BARRICADE AND ANY NECESSARY GRADING (SEE DETAIL R5.06)

AS-BUILT CERTIFICATION	
 J. Parekh JAYKANT D. PAREKH #10148 DATE: 1-7-93	1-7-93 DATE
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." Jennifer Johnson DEVELOPER DATE: 2/10/89	
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 DATE: 2-0-89	
REVIEWED FOR: HOWARD S.C.D.	
AND MEETS TECHNICAL REQUIREMENTS Jonathan M. Hahn S.C. SOIL CONSERVATION SERVICE DATE: 2/24/89	
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING Frank S. Dangle CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE: 2/10/89	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS Chief, Land Development Division Date: 2/10/89 Dr. William W. Weiland Chief, Bureau of Highways Date: 6/15/89 William S. Ray Chief, Bureau of Engineering Date: 6-6-89	
DATE NO	REVISION
OWNER/ THE DICKEY FAMILY % WALTER JOHNSON DEVELOPER PRUDENTIAL-BACHE SECURITIES 250 W. PRATT ST. BALTIMORE, MARYLAND 21201	
PROJECT: COVENTRY MEADOWS (SECTION ONE LOTS 1-G)	
AREA TAX MAP NO. 9 PARCEL NO. 71 3RD 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	
DATE: 2-10-89	5-88-70, 8-84-06, P. 84-21 VP-84-28, WF-83-100, WF 88-123 DESIGNED BY: C.J.R. DRAWN BY: J.C.R. PROJECT NO: 50702 DATE: JAN. 23, 1989 SCALE: AS SHOWN DRAWING NO. 5 OF 7

14471

OSCAR R. STRECKER JR.
930/677

STRUCTURE SCHEDULE

No.	Type	Location	Inv. In	Inv. Out	Top of Curb or Rim Elevation	Remarks
E-1	30" Concrete Box Section	66' LT OF STA. 11+76 MD RT. 32	561.40 567.20	—	—	Ho. Co. Std. Detail SD-5.51
I-1	SHA COG IO INLET	24' LT OF STA. 11+41 MD RT. 32	572.00	567.75	580.70	SHA STD. DETAIL MD-374.31
HW-1	Modified Type 'A' Headwall	23' LT OF STA. 13+28 COVENTRY MEADOWS DRIVE	(2) 535.70 (1) 536.20	—	—	Ho. Co. Std. Detail SD-5.11 modification for 3 pipes
HW-2	Modified Type 'A' Headwall	20' RT. OF STA. 14+23 COVENTRY MEADOWS DRIVE	(2) 535.50	—	—	Ho. Co. Std. Detail SD-5.11 Modified for 3 pipes

AS-BUILT CERTIFICATION
J. Farrell
1-7-93
DATE

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."
J. Farrell
2/10/89
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
2-10-89
ENGINEER DATE

REVIEWED FOR HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS
James M. Helms
2/24/89
S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D.
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE

DATE NO REVISION

OWNER/DEVELOPER: THE DICKEY FAMILY c/o WALTER JOHNSON PRUDENTIAL BACHE SECURITIES 250 W. PRATT STREET, BALTIMORE, MD 21201

PROJECT: COVENTRY MEADOWS (SECTION ONE LOTS 1-6)

AREA: TAX MAP NO. 9 PARCEL NO. 71 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

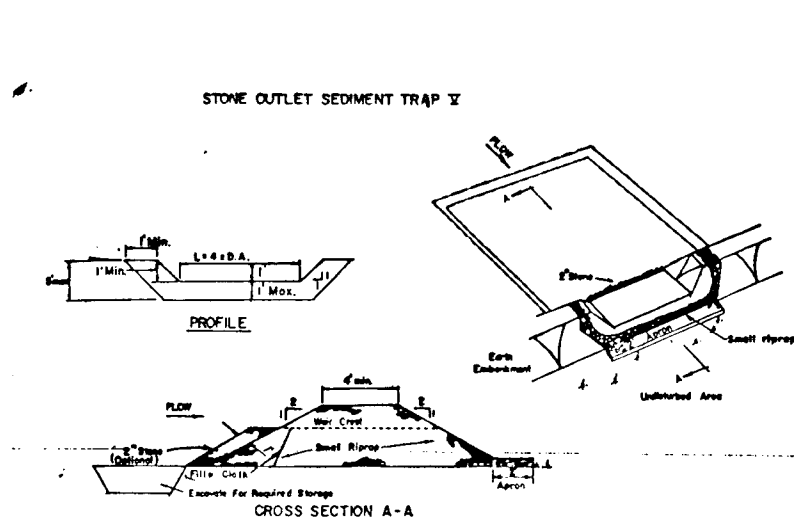
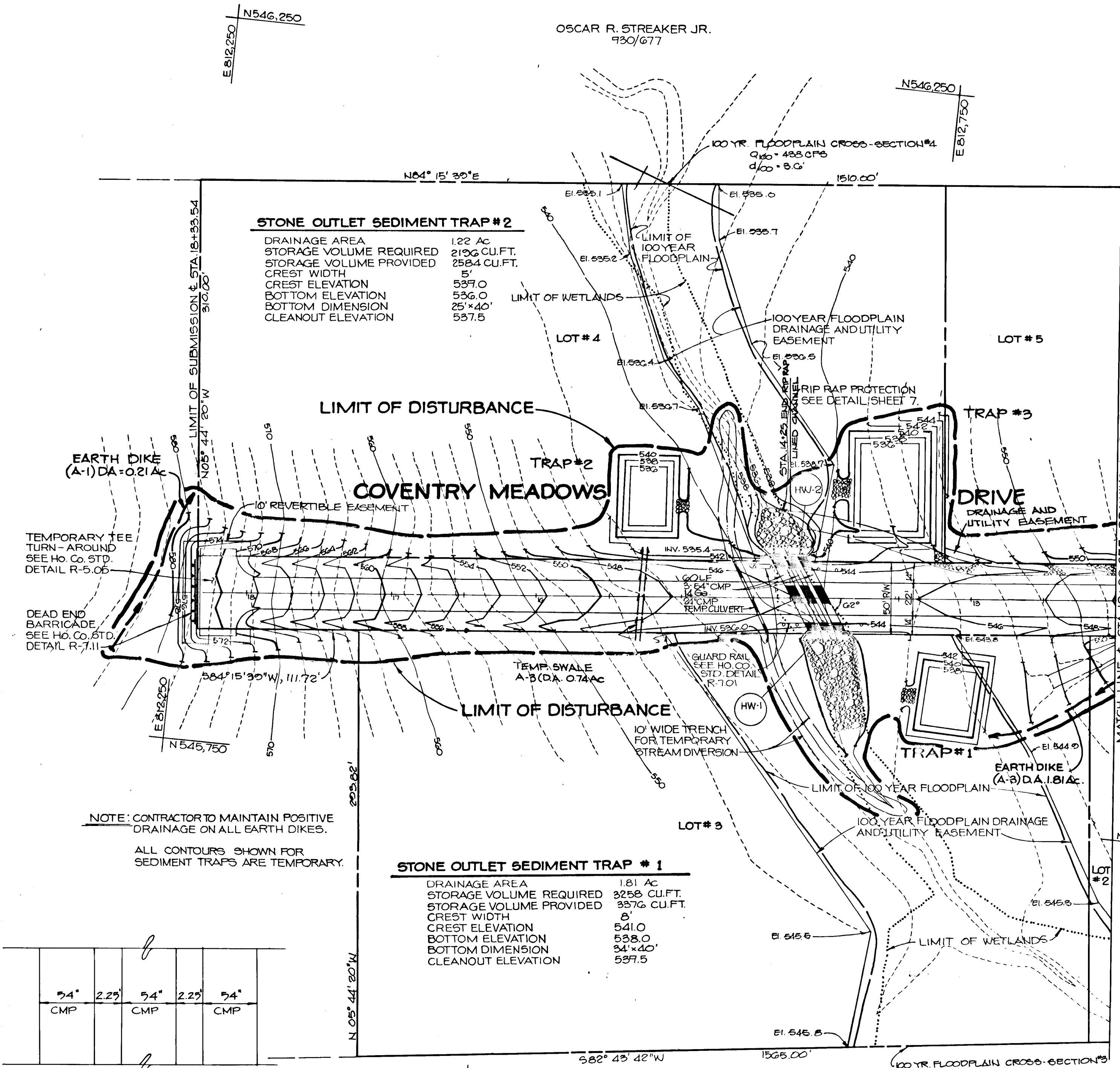
TITLE: PROFILES, GRADING AND SEDIMENT CONTROL PLAN

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
2-10-89 DATE
DESIGNED BY: C.J.R.
DRAWN BY: J.C.R.
PROJECT NO: 50702
DATE: JAN 26, 1989
SCALE: AS SHOWN
DRAWING NO: 6 OF 7

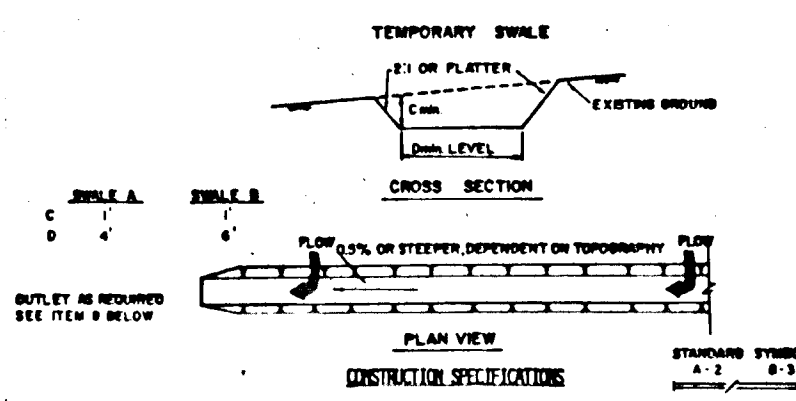
STONE OUTLET SEDIMENT TRAP #3
DRAINAGE AREA: 2.85 Ac.
STORAGE REQUIRED: 5190 Cu. Ft.
STORAGE PROVIDED: 5604 Cu. Ft.
CREST WIDTH: 12'
CREST ELEVATION: 539.0'
BOTTOM DIMENSION: 40' x 60'
BOTTOM ELEVATION: 536.0'
CLEANOUT ELEVATION: 537.5'

STONE OUTLET SEDIMENT TRAP #2
DRAINAGE AREA: 1.22 Ac.
STORAGE VOLUME REQUIRED: 2196 CU.FT.
STORAGE VOLUME PROVIDED: 2584 CU.FT.
CREST WIDTH: 5'
CREST ELEVATION: 537.0'
BOTTOM ELEVATION: 536.0'
BOTTOM DIMENSION: 25' x 40'
CLEANOUT ELEVATION: 537.5'

STONE OUTLET SEDIMENT TRAP #1
DRAINAGE AREA: 1.81 Ac.
STORAGE VOLUME REQUIRED: 3258 CU.FT.
STORAGE VOLUME PROVIDED: 3576 CU.FT.
CREST WIDTH: 8'
CREST ELEVATION: 541.0'
BOTTOM ELEVATION: 538.0'
BOTTOM DIMENSION: 34' x 40'
CLEANOUT ELEVATION: 537.5'



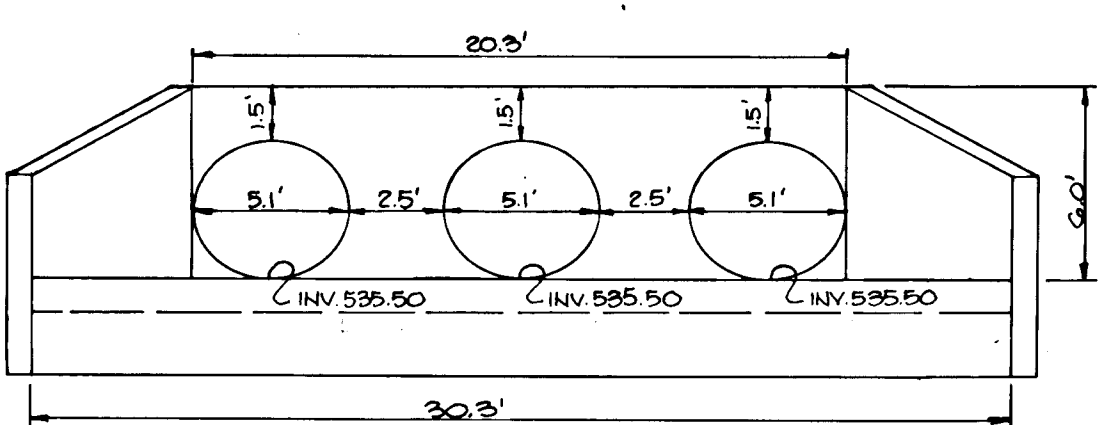
STONE OUTLET SEDIMENT TRAP
NO SCALE



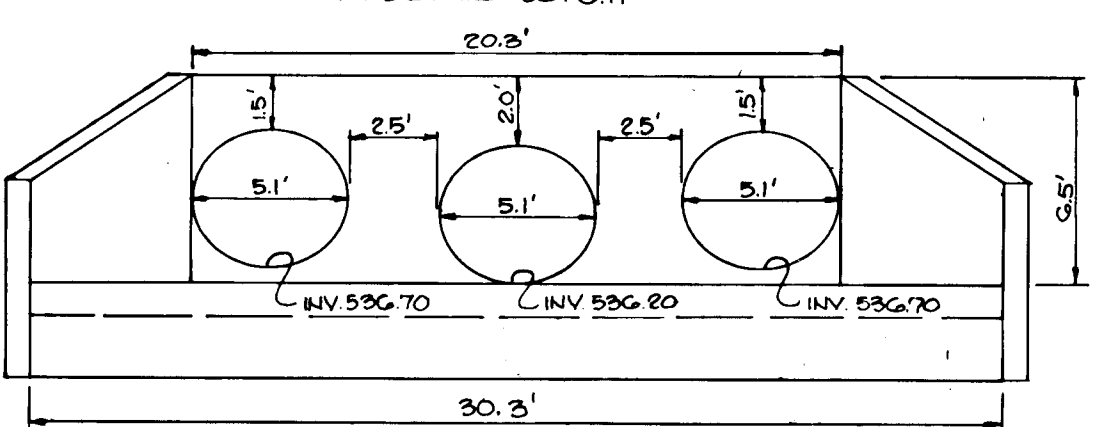
TEMPORARY SWALE
NO SCALE

74"	2.25'	74"	2.25'	74"
CMP		CMP		CMP

TYPICAL CULVERT SECTION
NO SCALE



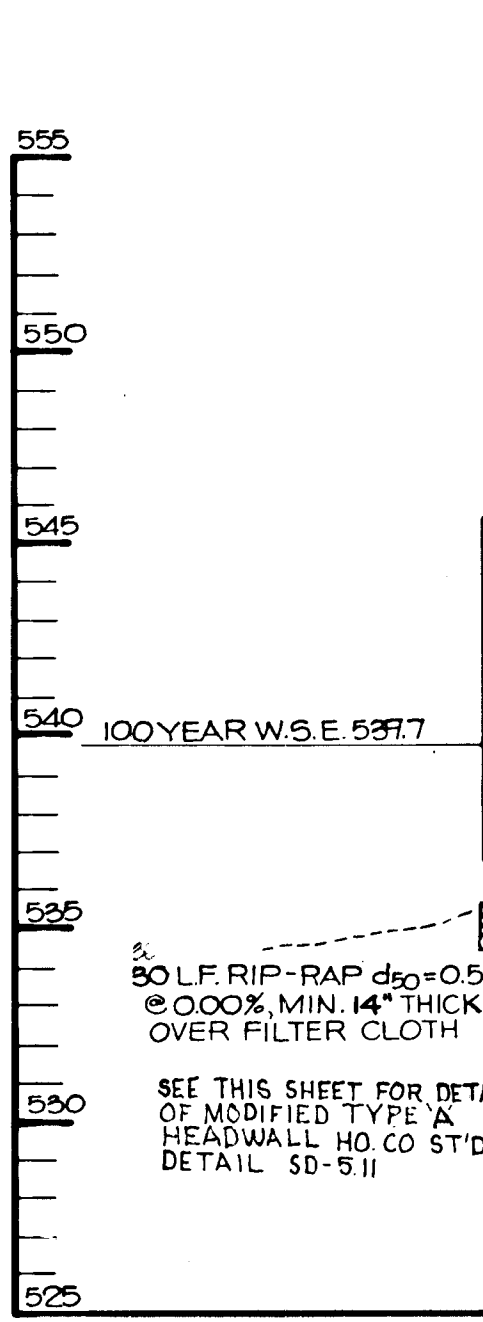
HEADWALL-2
NO SCALE



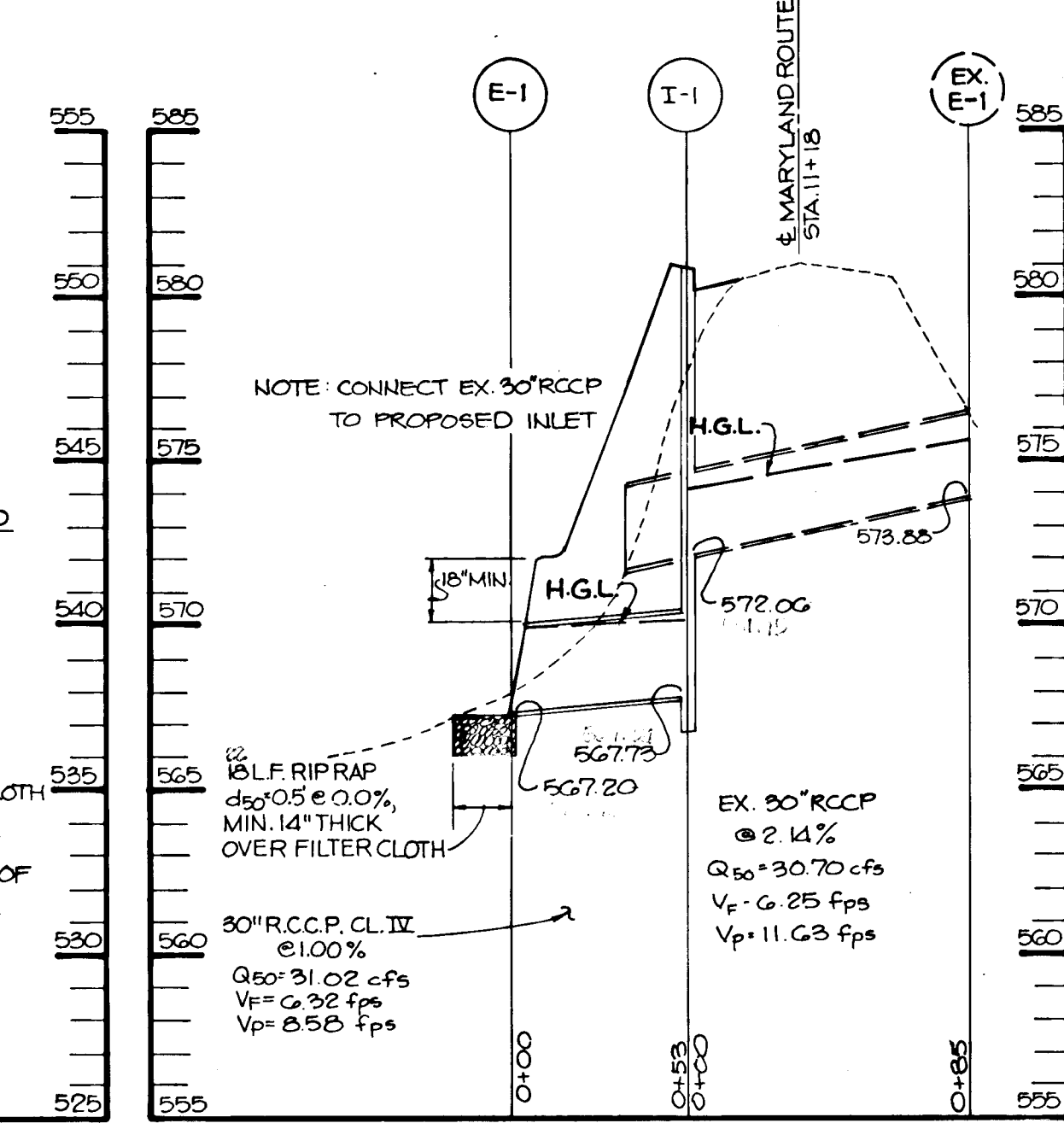
HEADWALL-1
NO SCALE

PLAN
SCALE: 1" = 50'

- SEQUENCE OF CONSTRUCTION
1. Obtain a grading permit.
 2. Install stabilized construction entrance. (1 day)
 3. Install silt fence, temporary swales, earth dikes, stone outlet sediment traps and temporary culvert at station 14+28 with stream diversion. (5 days)
 4. Grade site maintaining positive drainage on all earth dikes. (2 weeks)
 5. Install storm drains, culverts, headwalls and riprap under Coventry Meadows Drive and remove existing 15" CMP pipe at site entrance. (5 days)
 6. Complete all construction including paving.
 7. Stabilize all disturbed areas according to permanent seeding notes. (1 day)
 8. Install riprap channel. (1 Day)
 9. Upon permission of the Howard County Department of Public Works Sediment Control Inspector remove all remaining sediment control devices and stabilize the disturbed area in accordance with the permanent seeding notes. (5 days)



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



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

U4771

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent vegetative cover is needed.

Soil 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 materials:

- 1) Preferred - Apply 3 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harvest or disc into upper three inches of soil.
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harvest or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 31, seed with 50 lbs per acre (1.2 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 (0.5 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect area by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use soil. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1/4 to 2 tons per acre (20 to 80 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using such anchoring tool as 2/8 gal/acre (5 gal/1000 sq ft) of unrotted asphalt on flat areas. On slopes 8 feet or higher, use 3/8 gal/acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

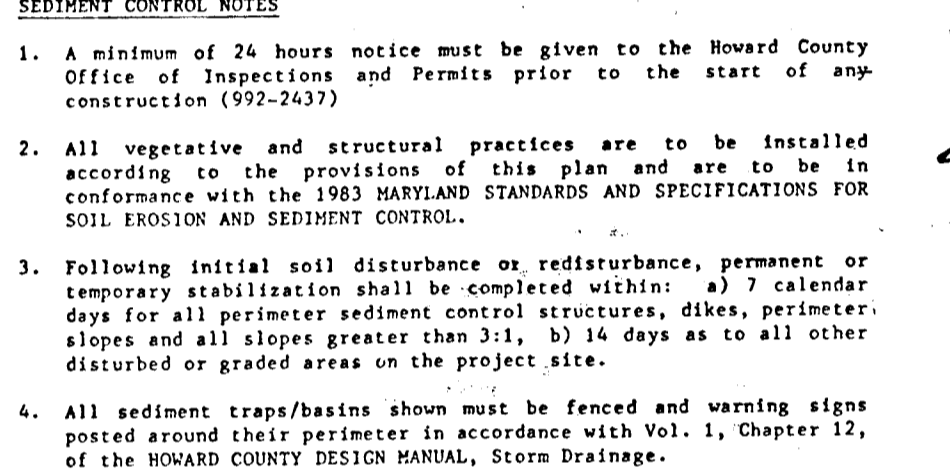
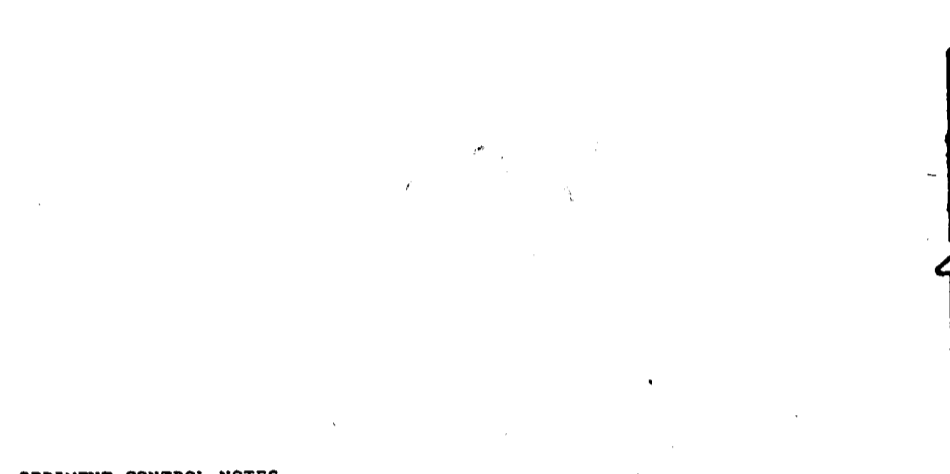
Apply to graded or cleared areas likely to be restituted where a short-term vegetative cover is needed.

Soil 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).

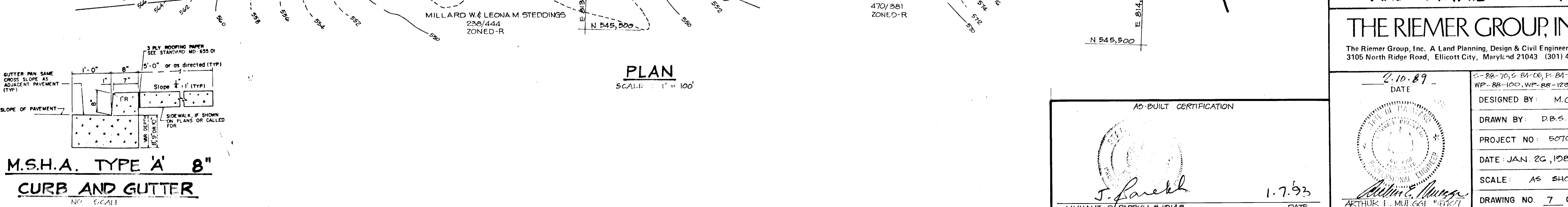
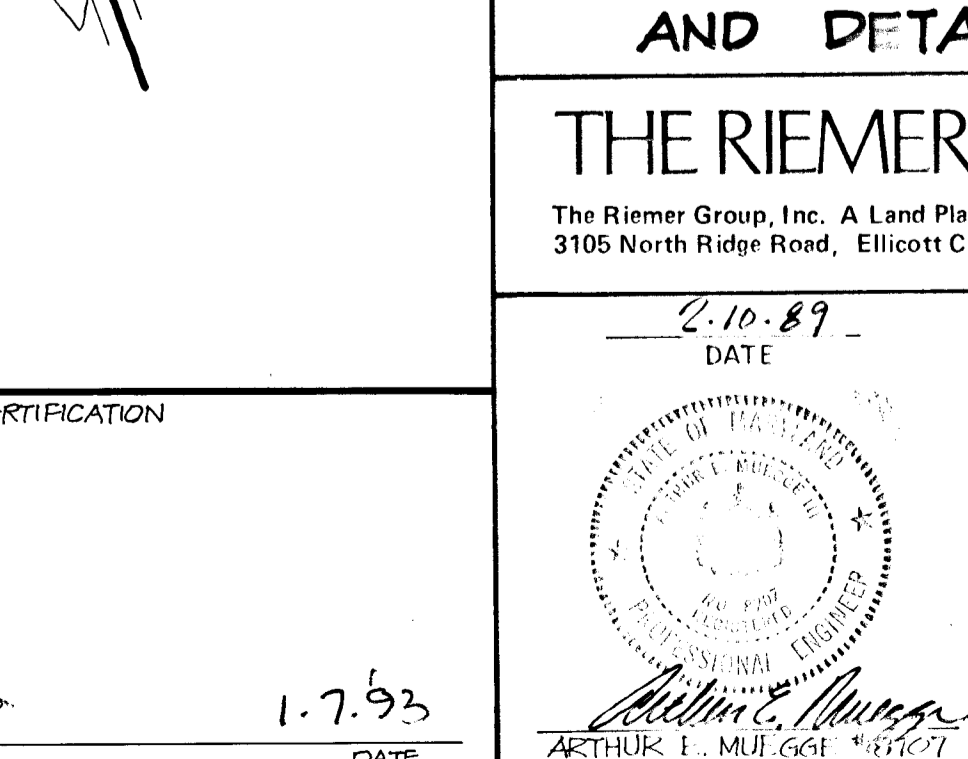
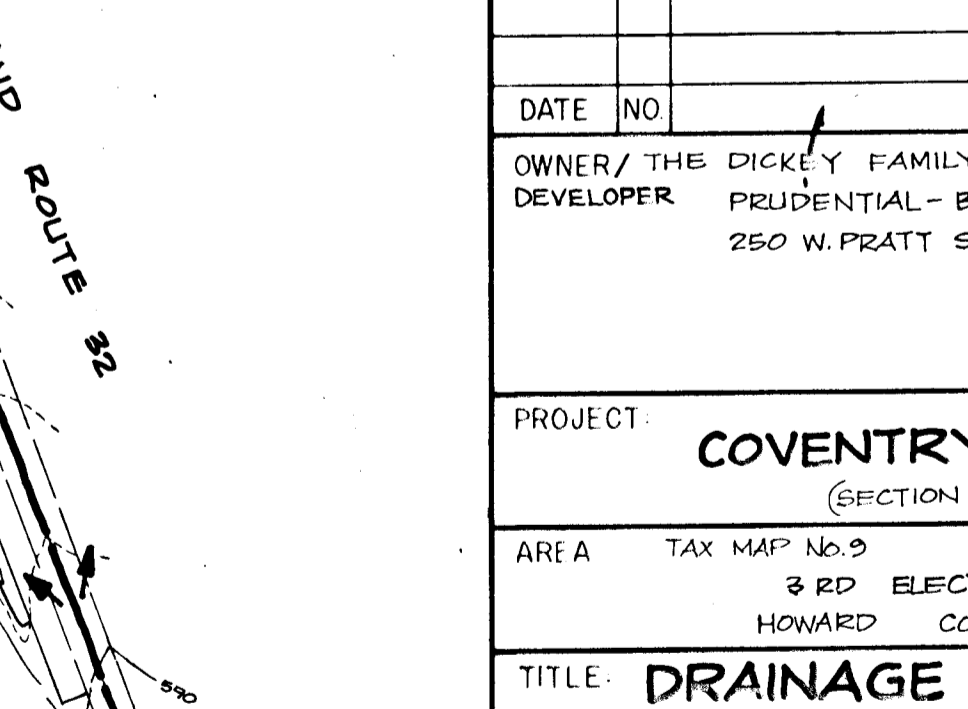
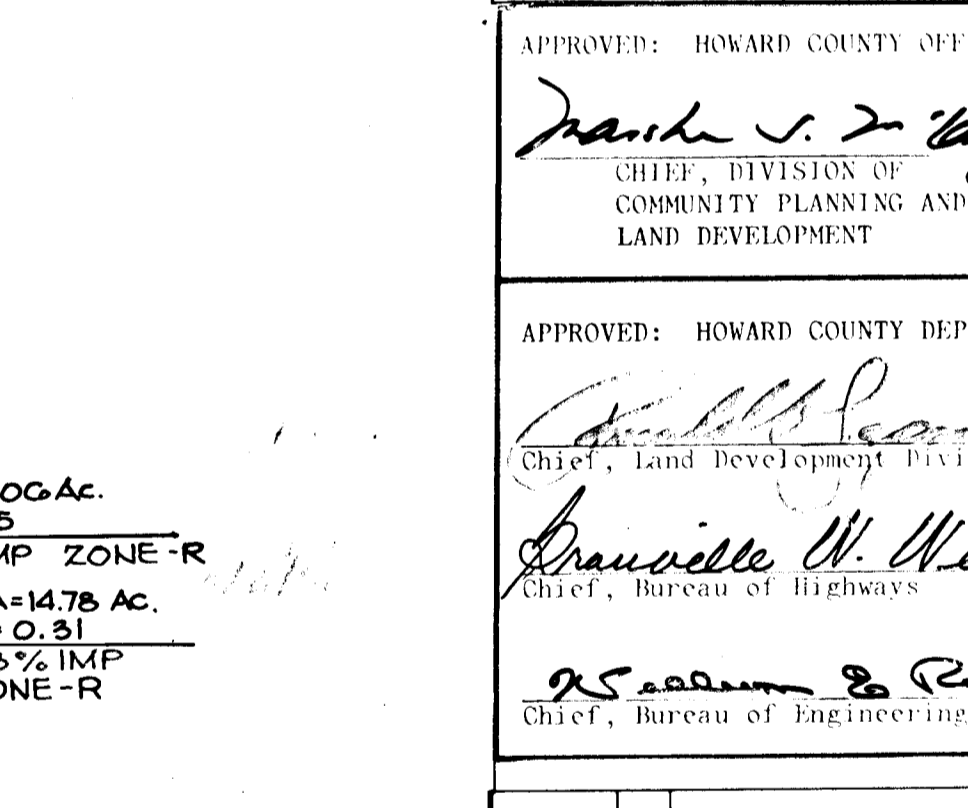
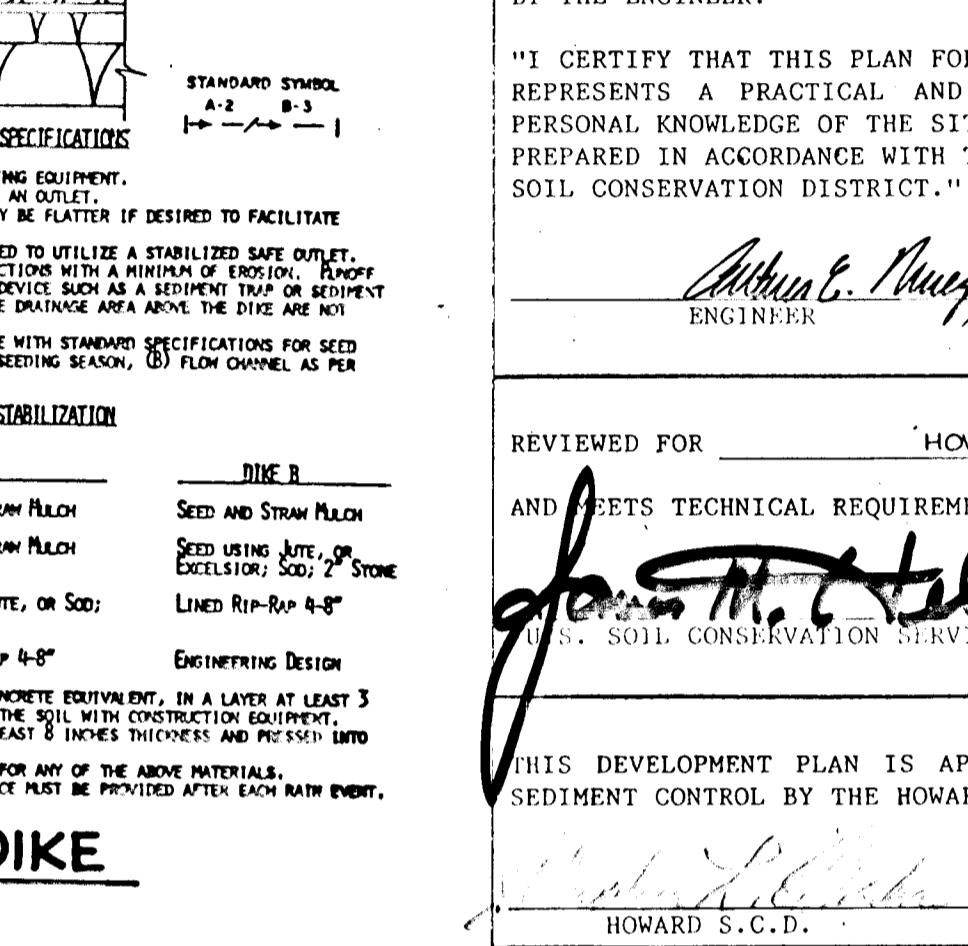
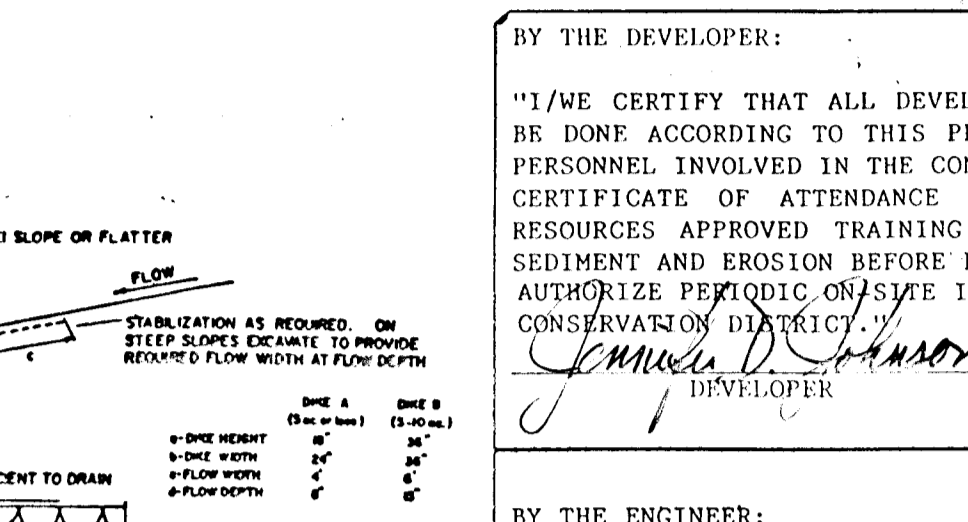
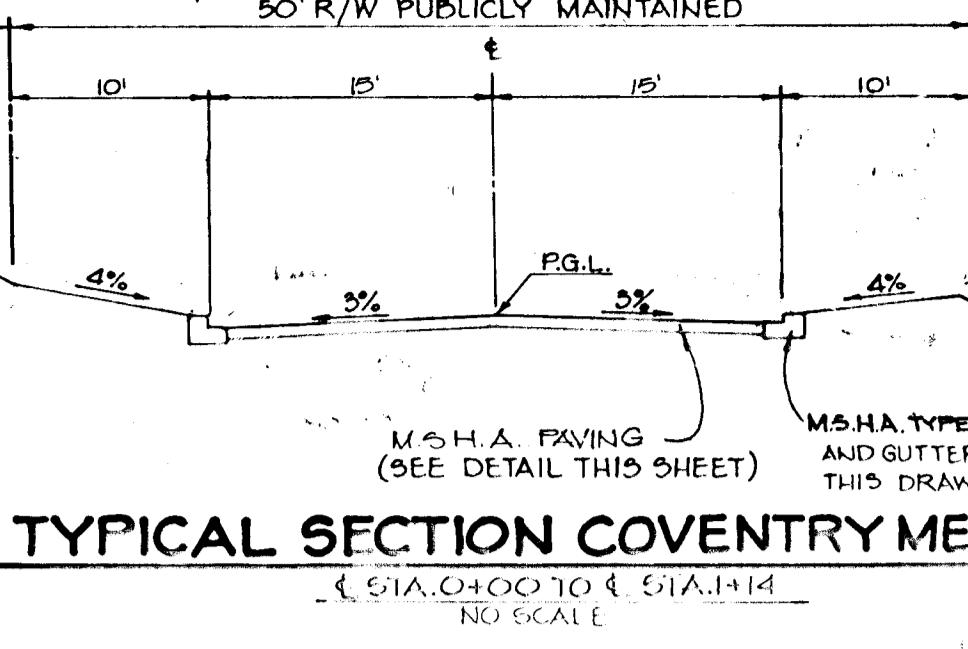
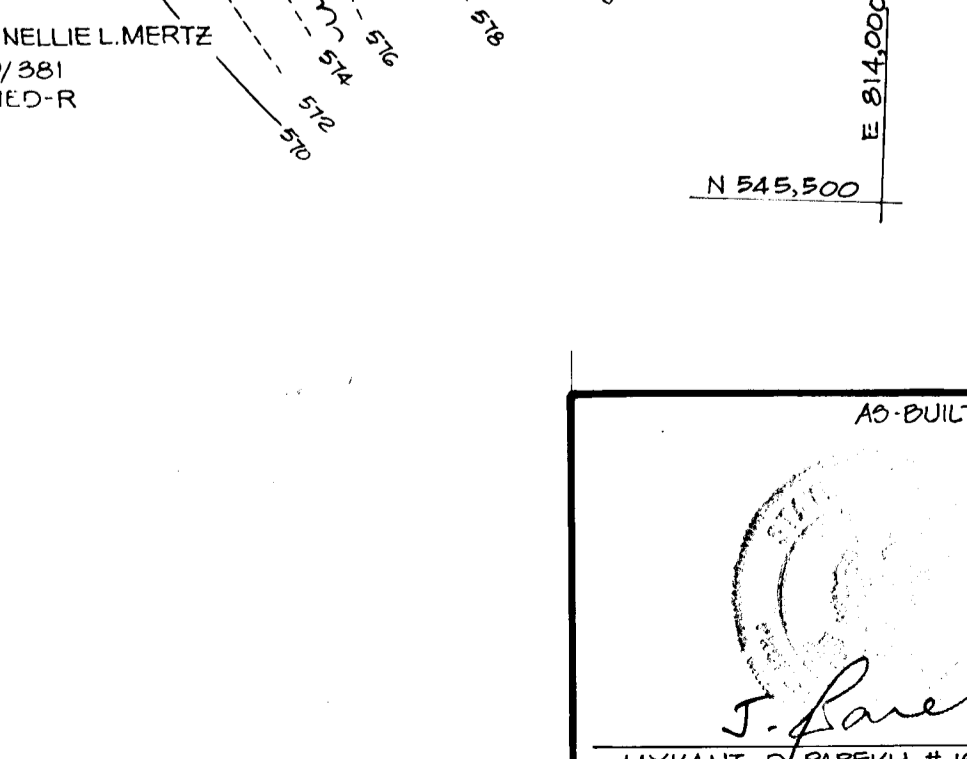
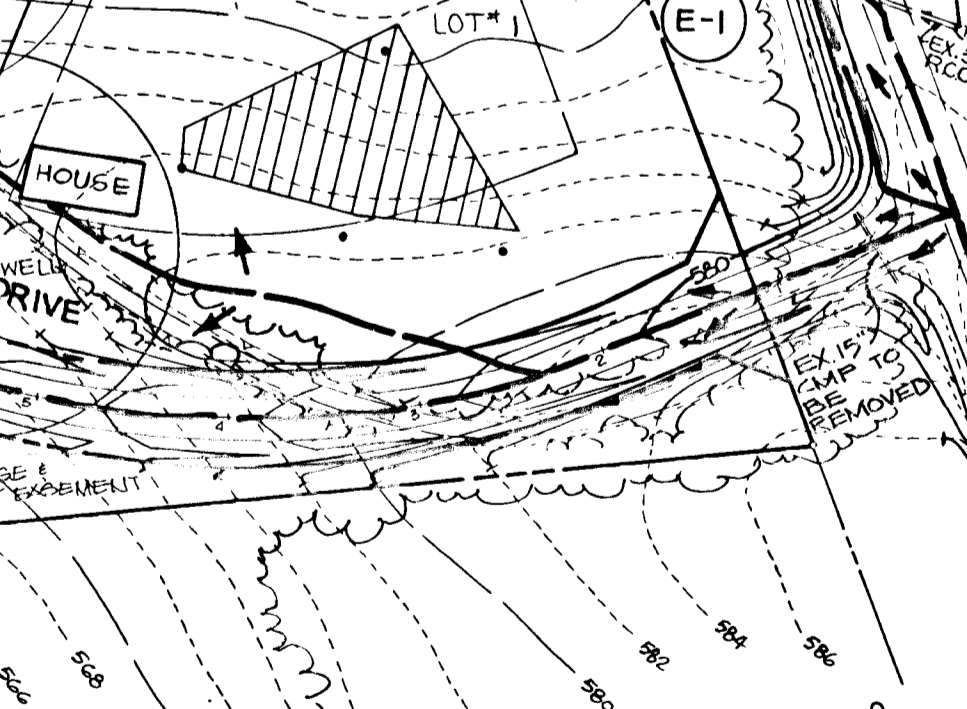
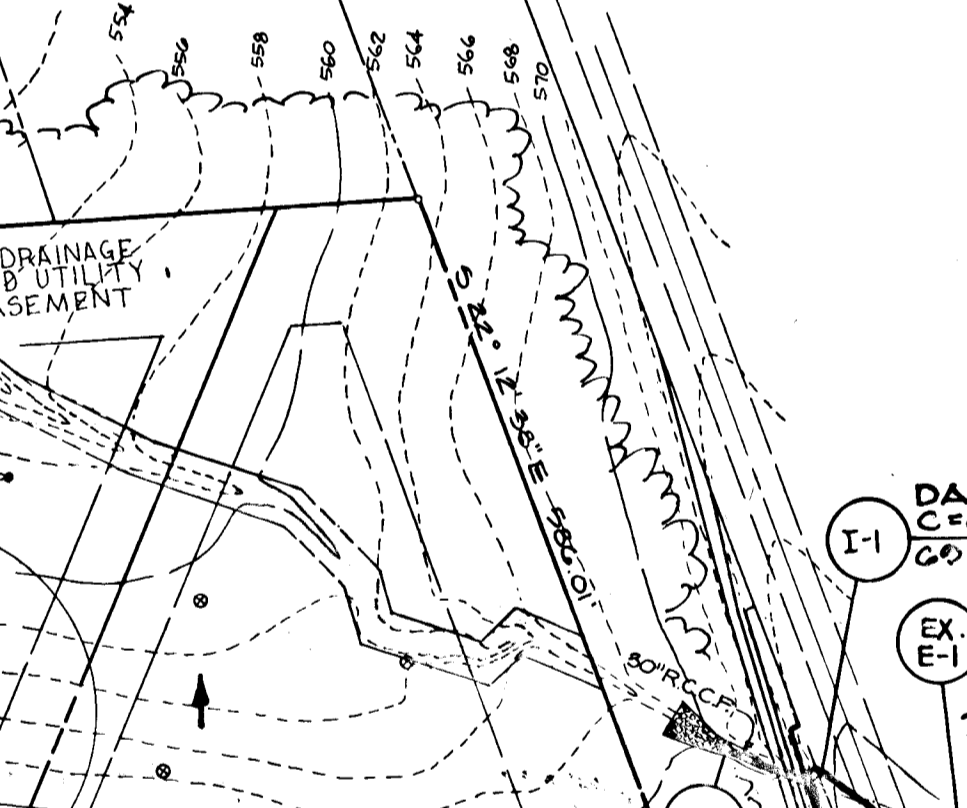
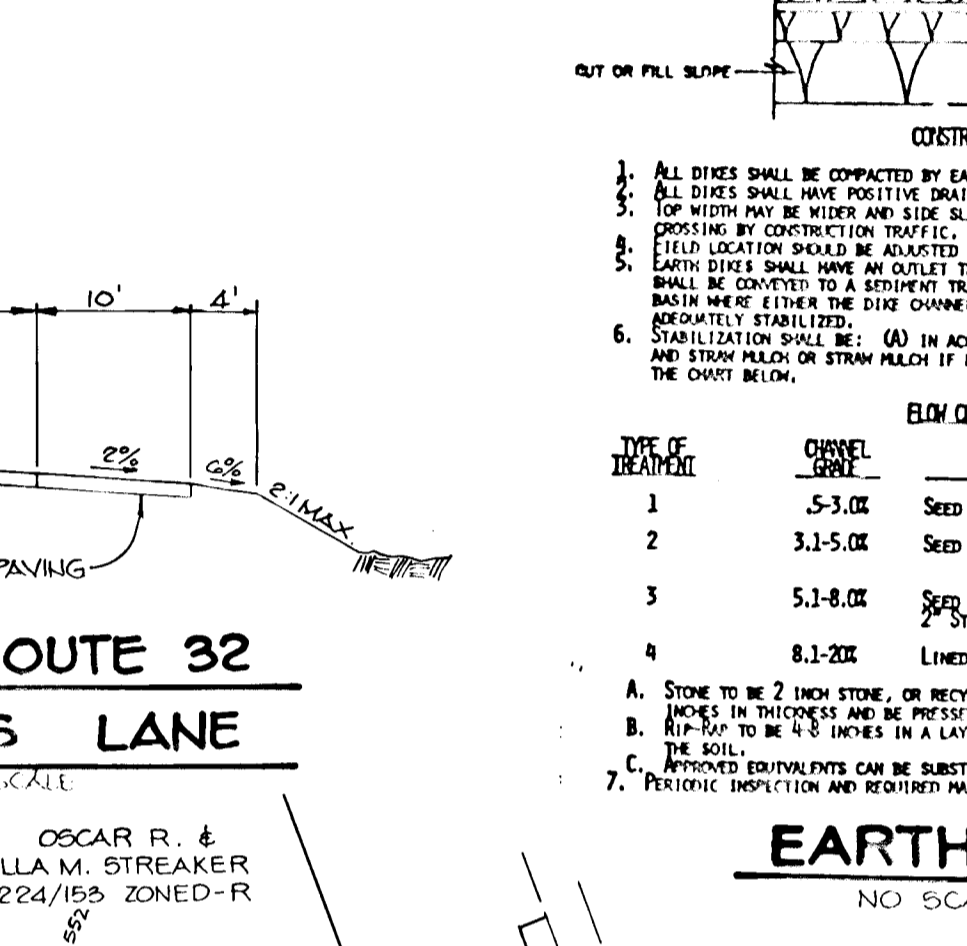
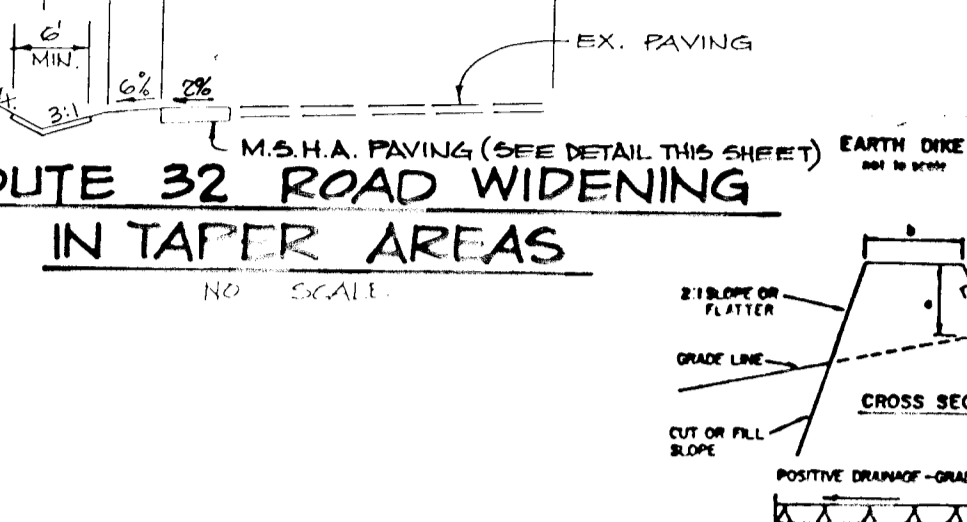
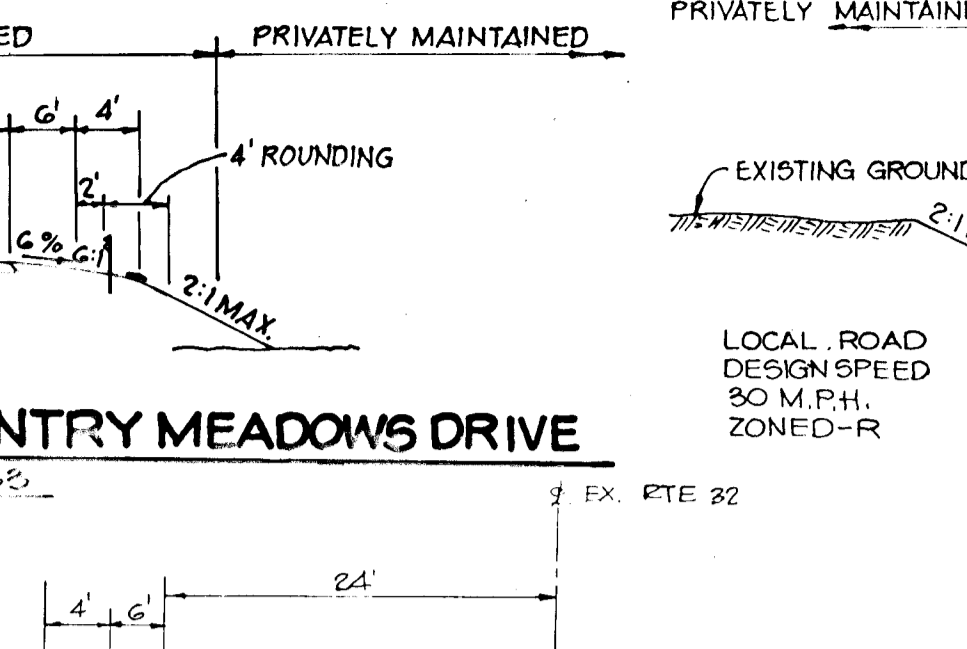
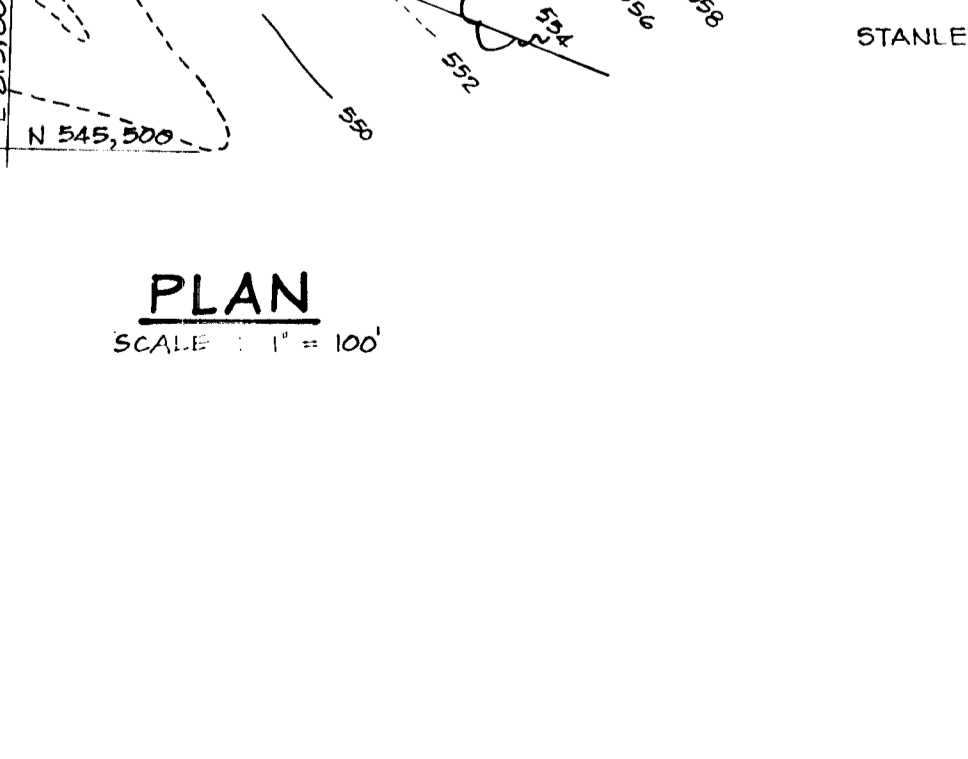
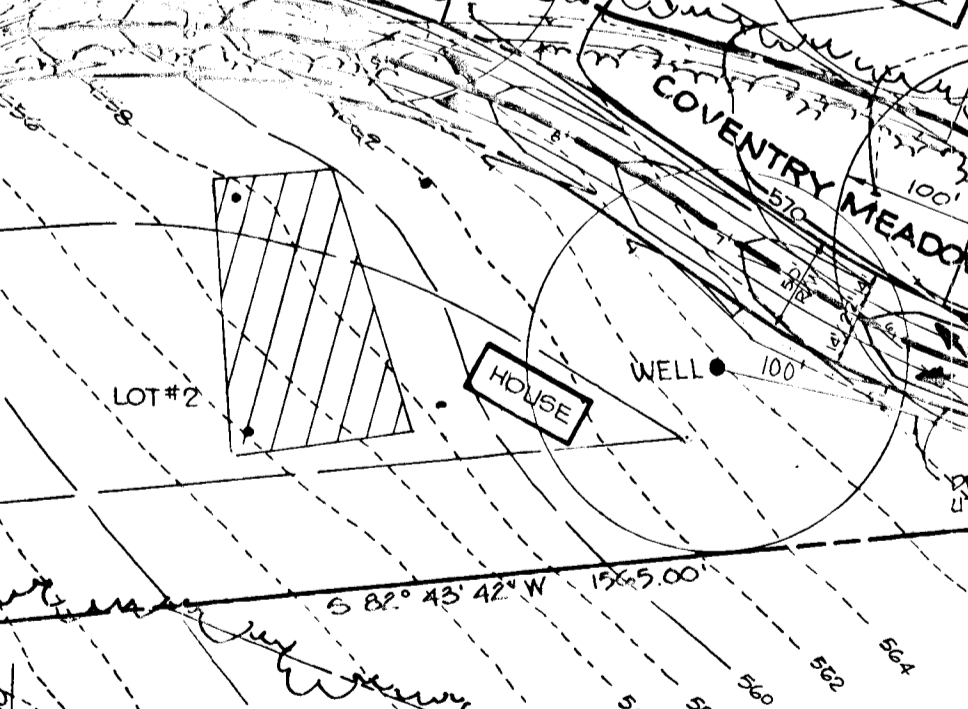
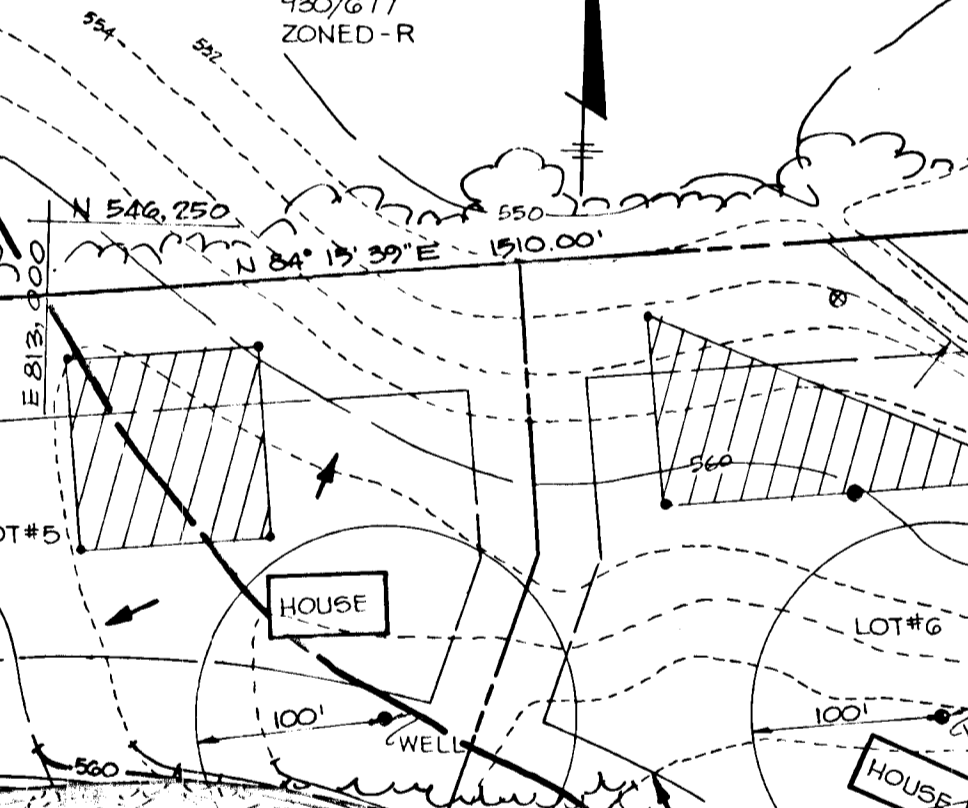
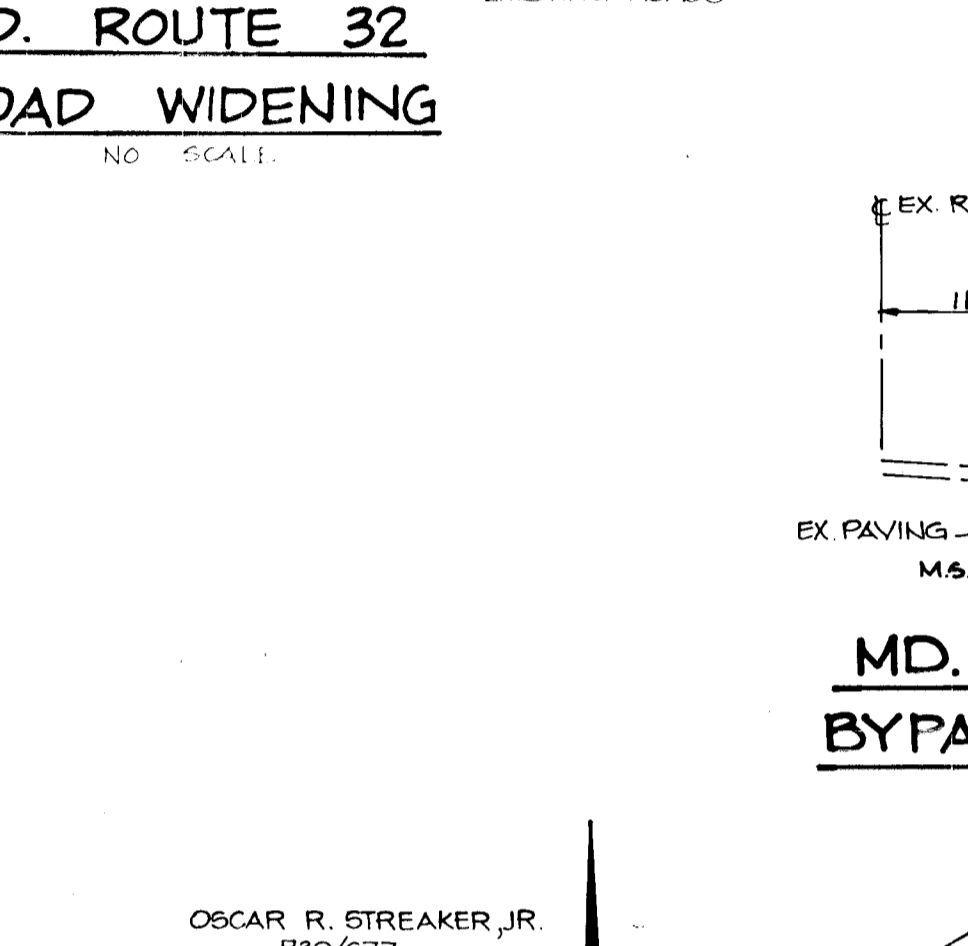
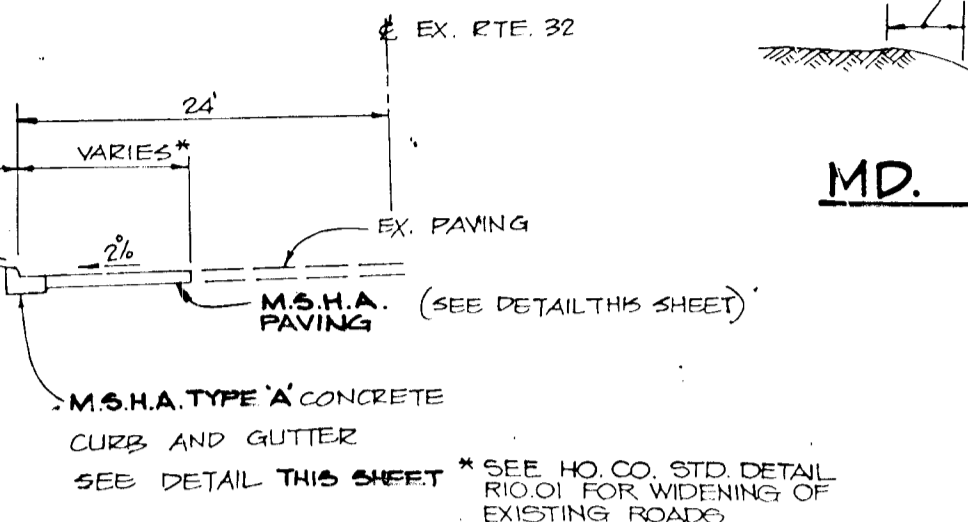
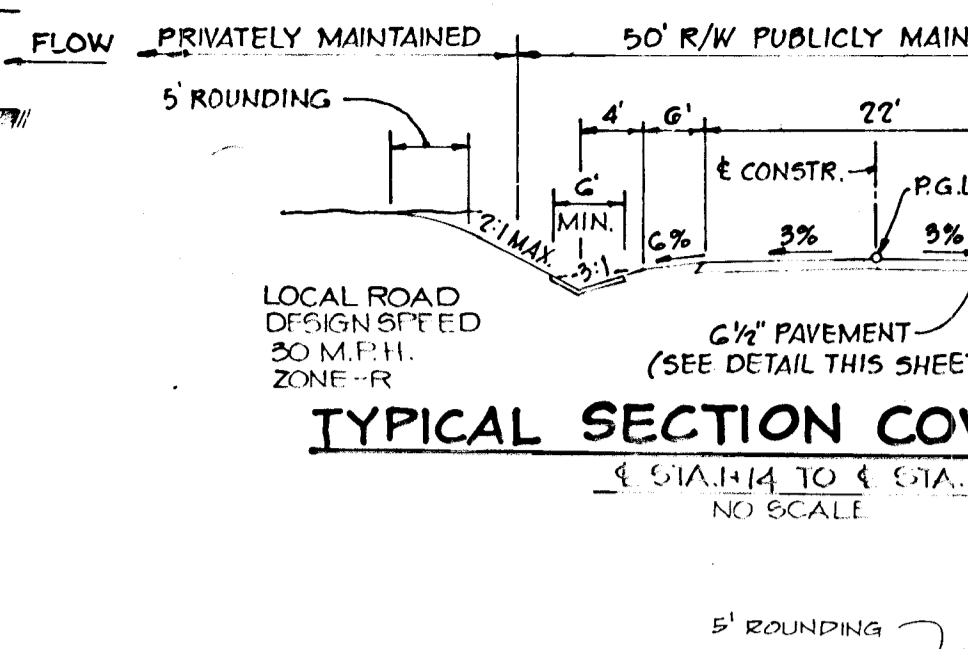
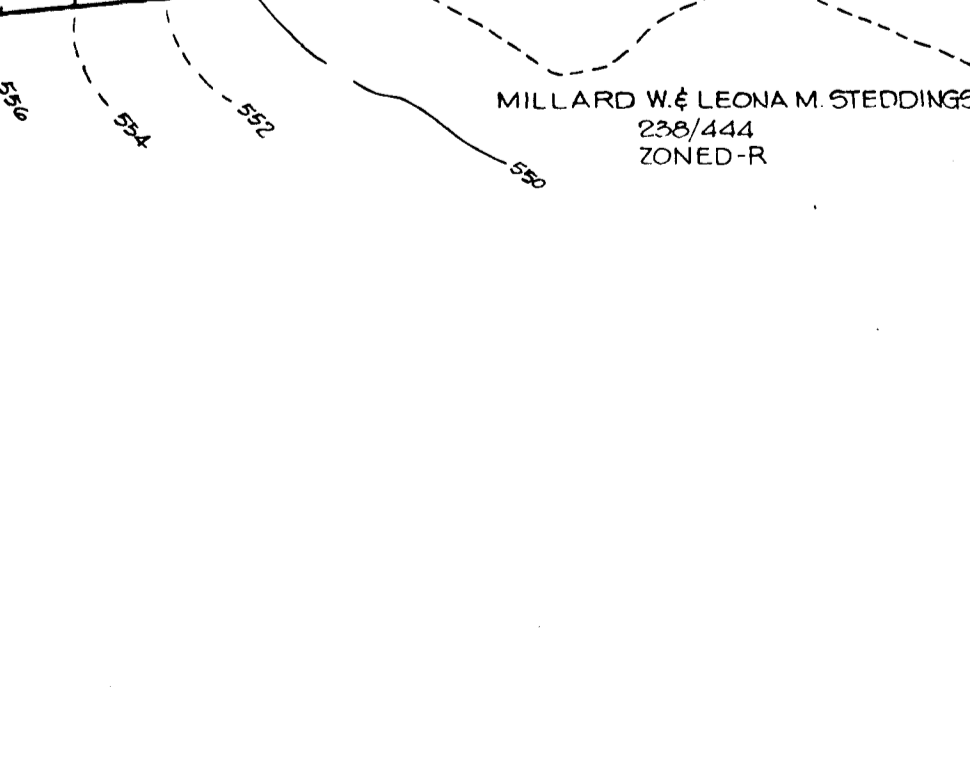
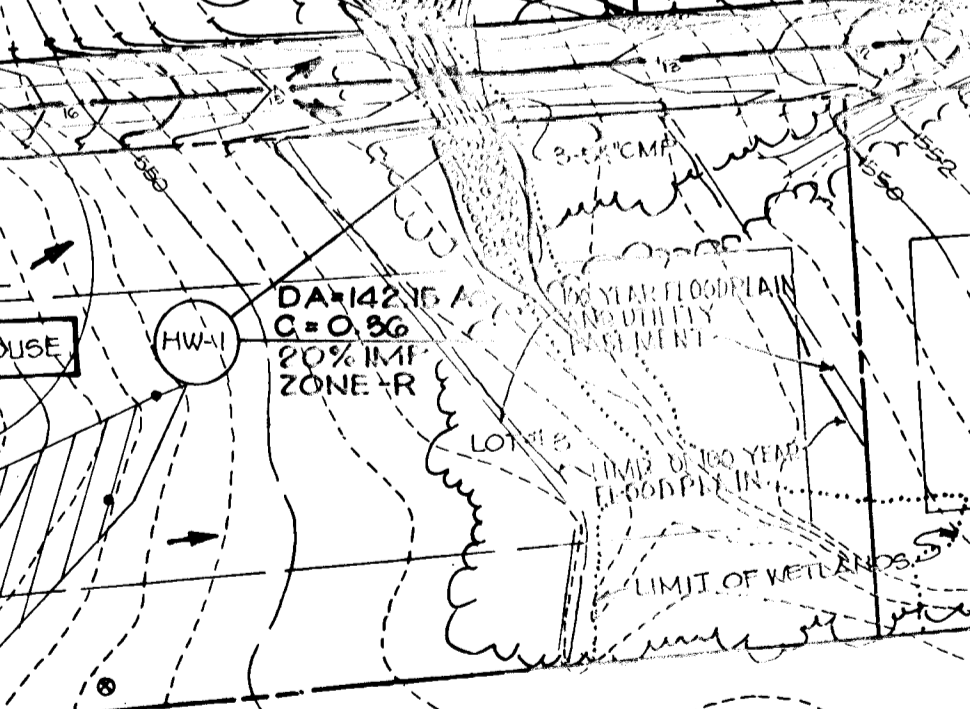
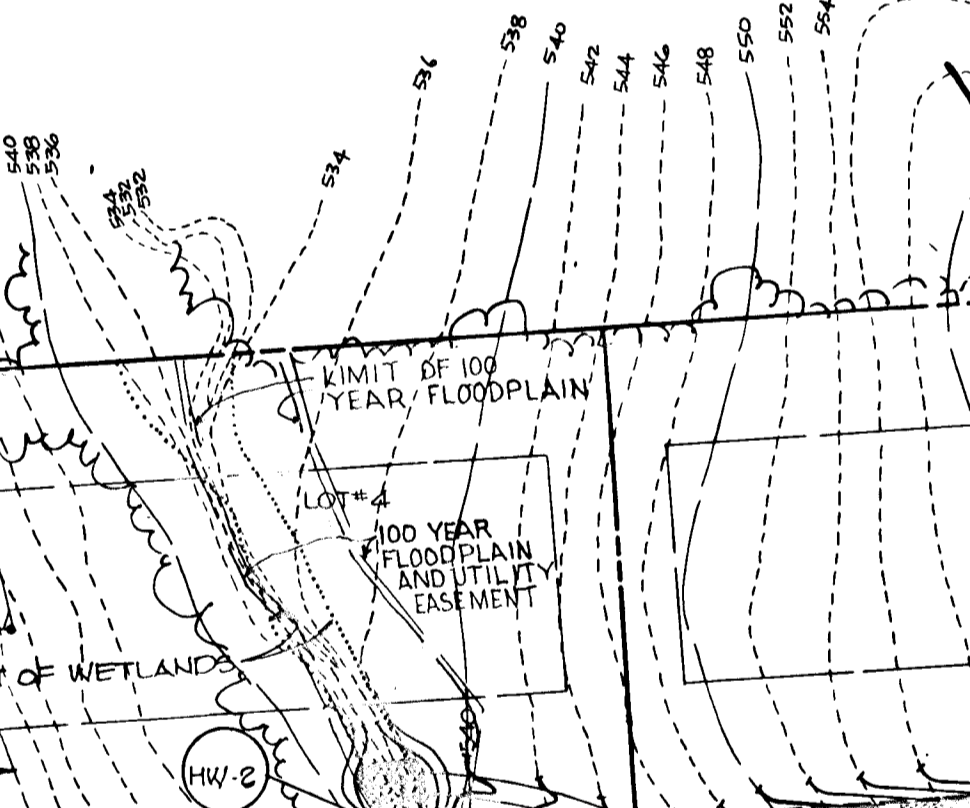
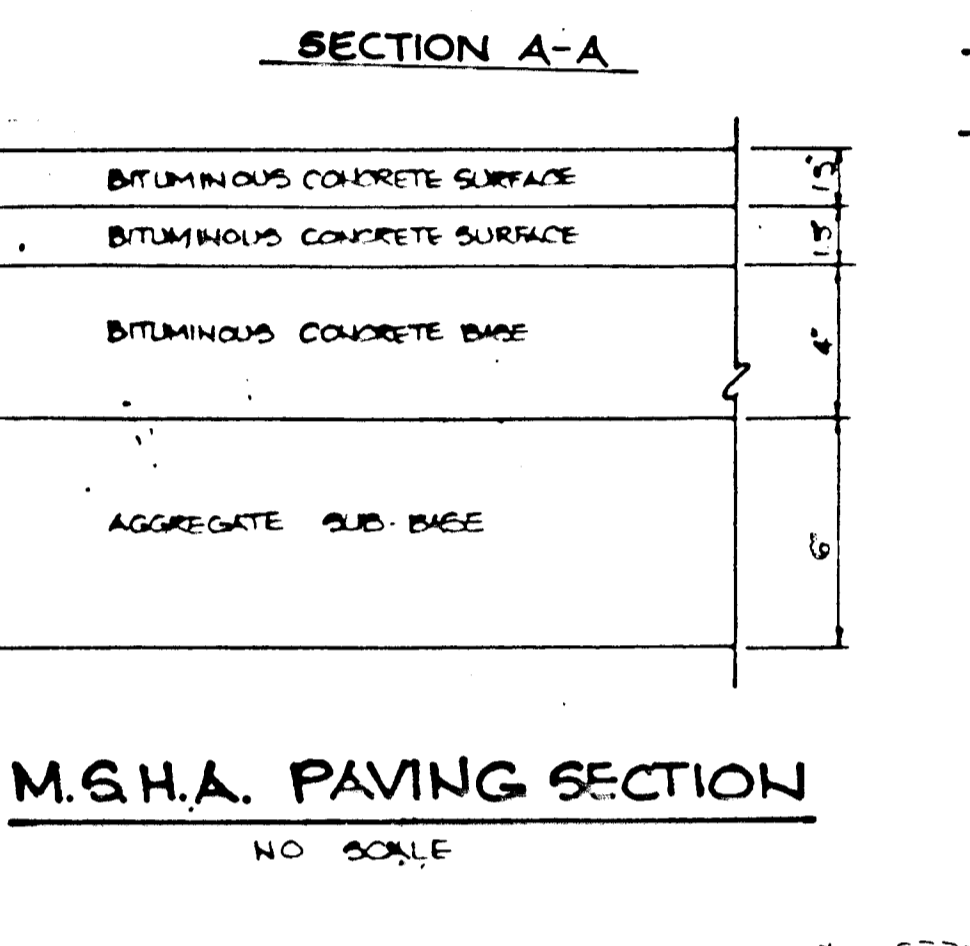
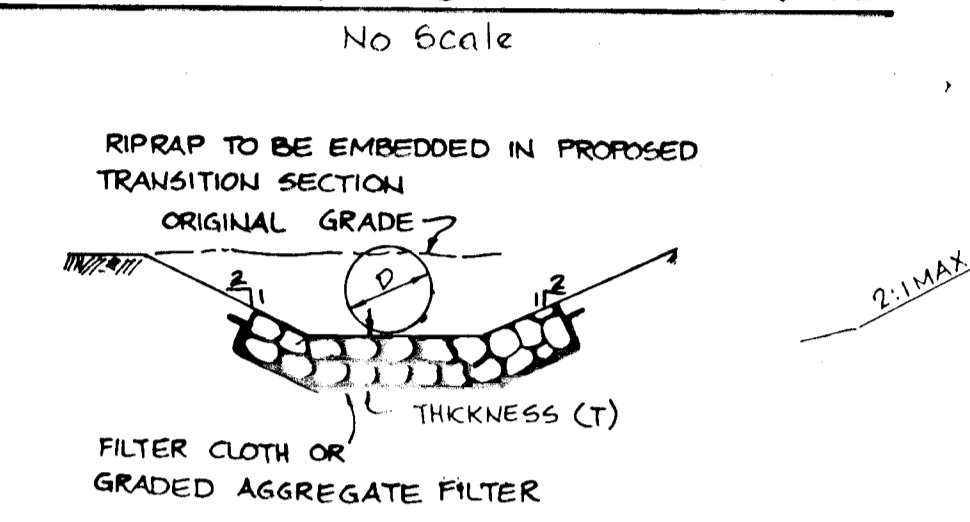
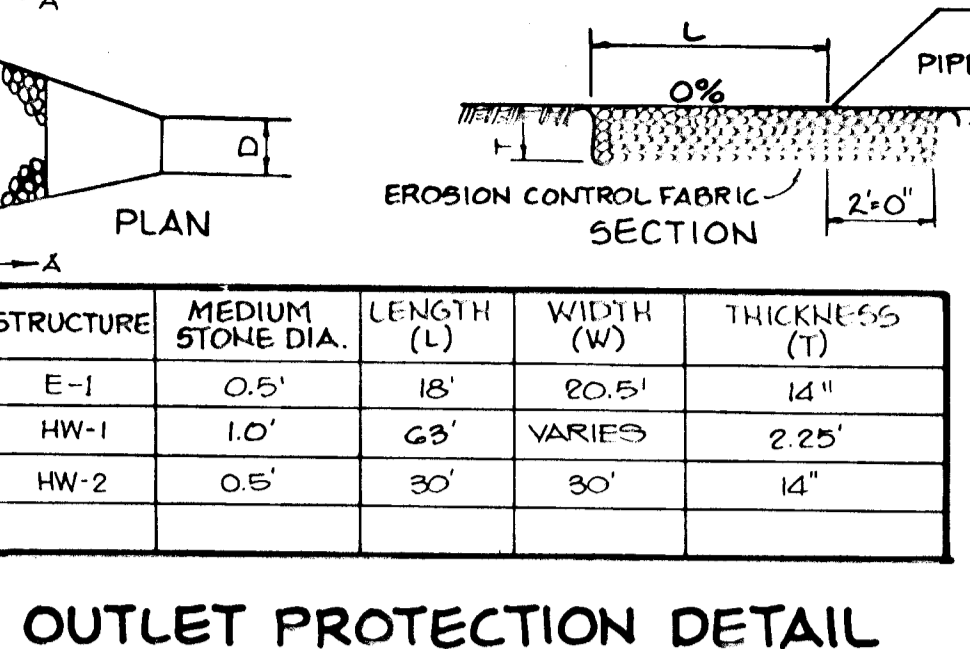
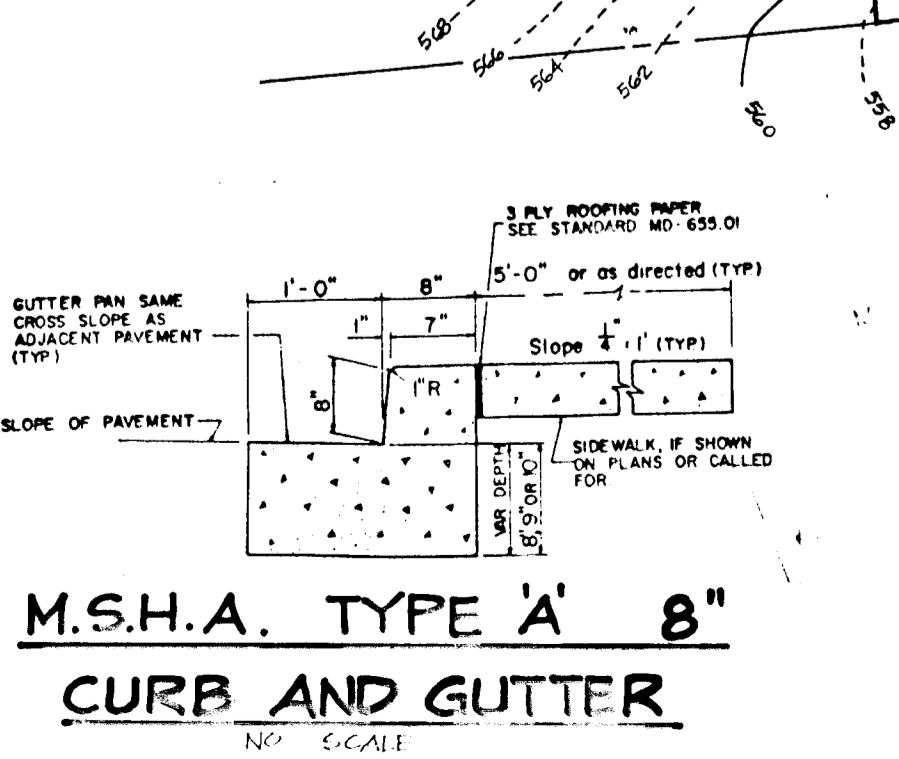
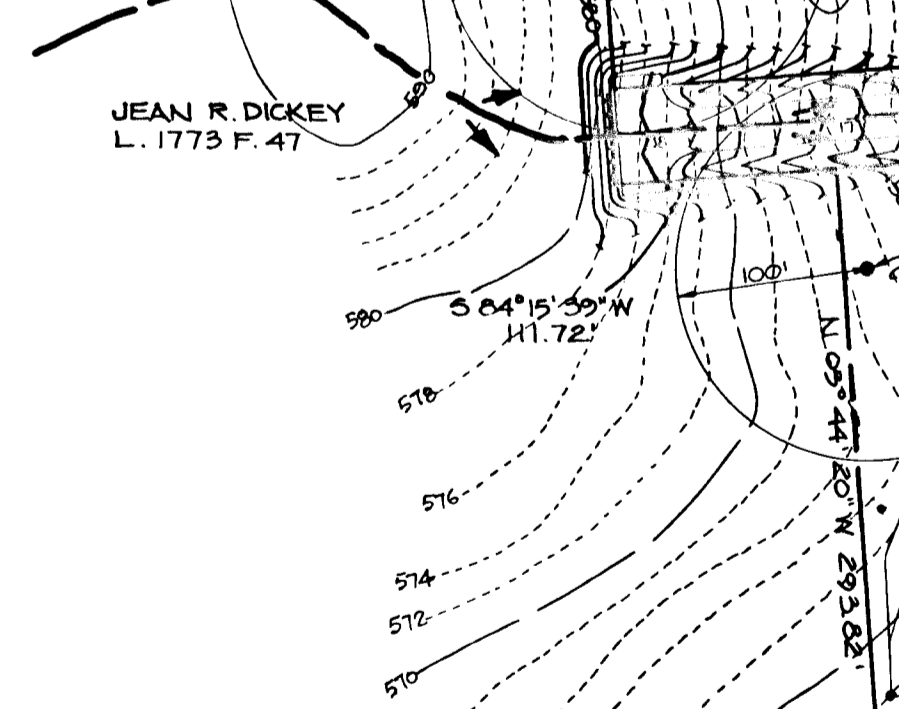
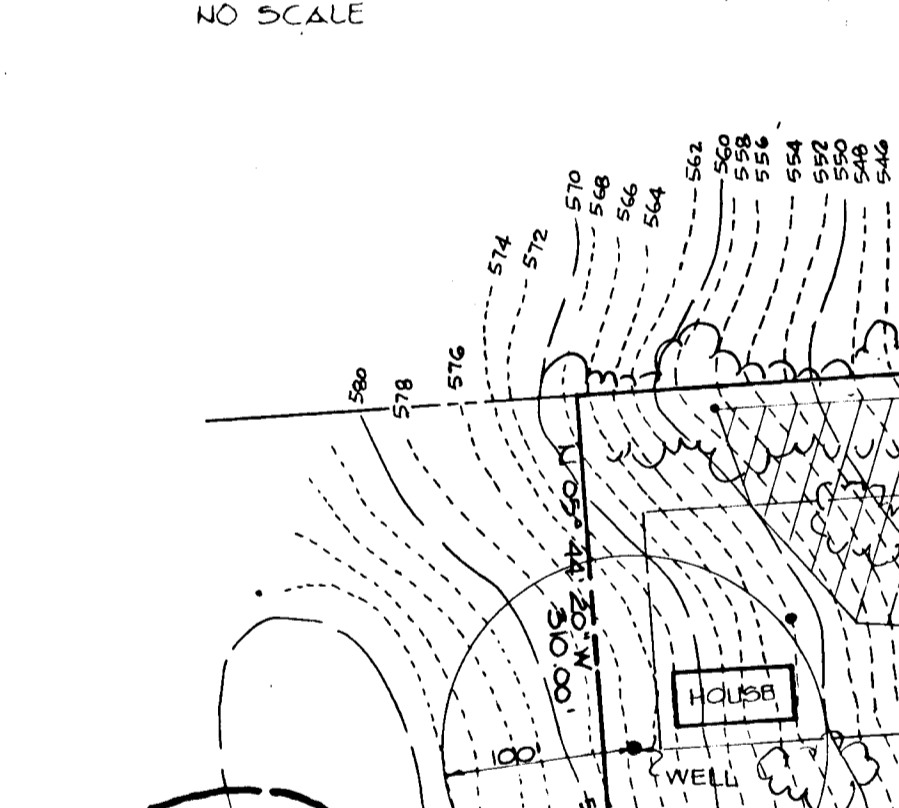
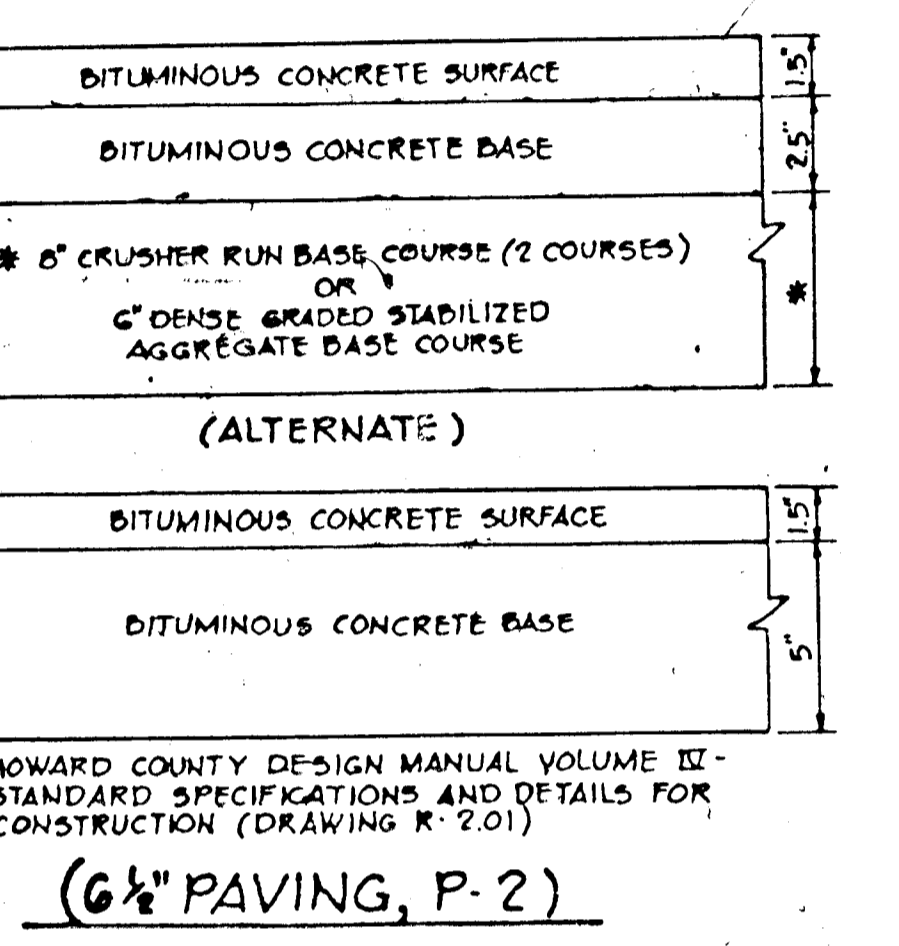
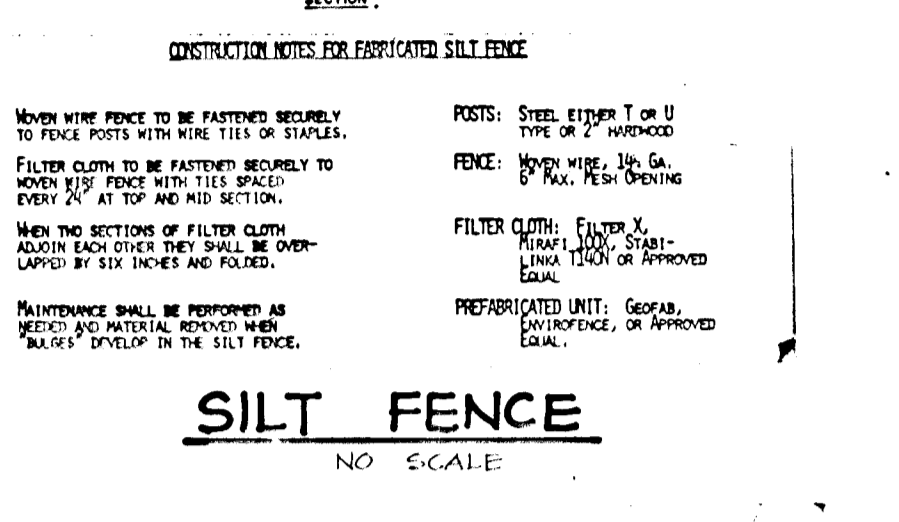
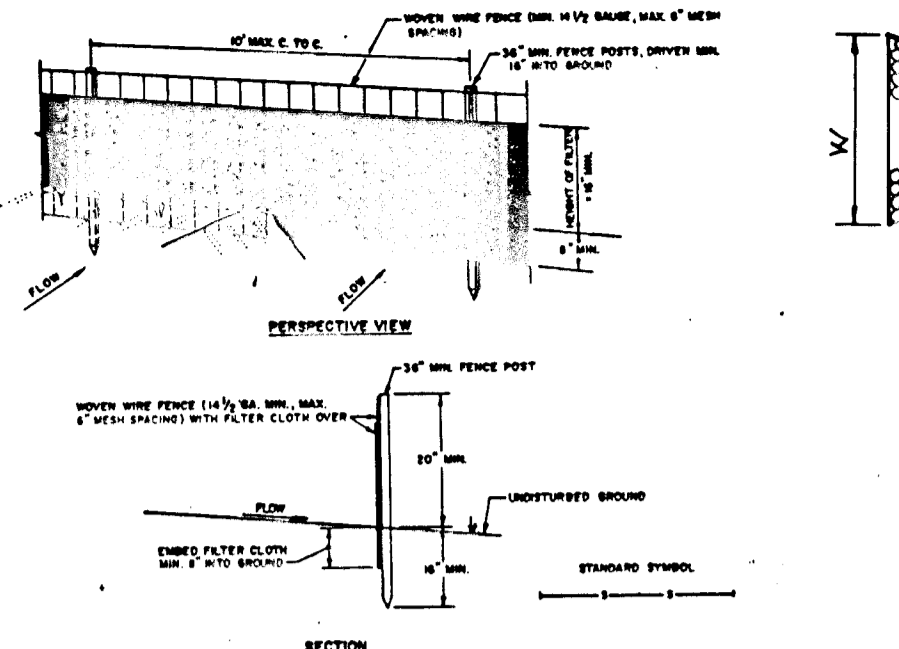
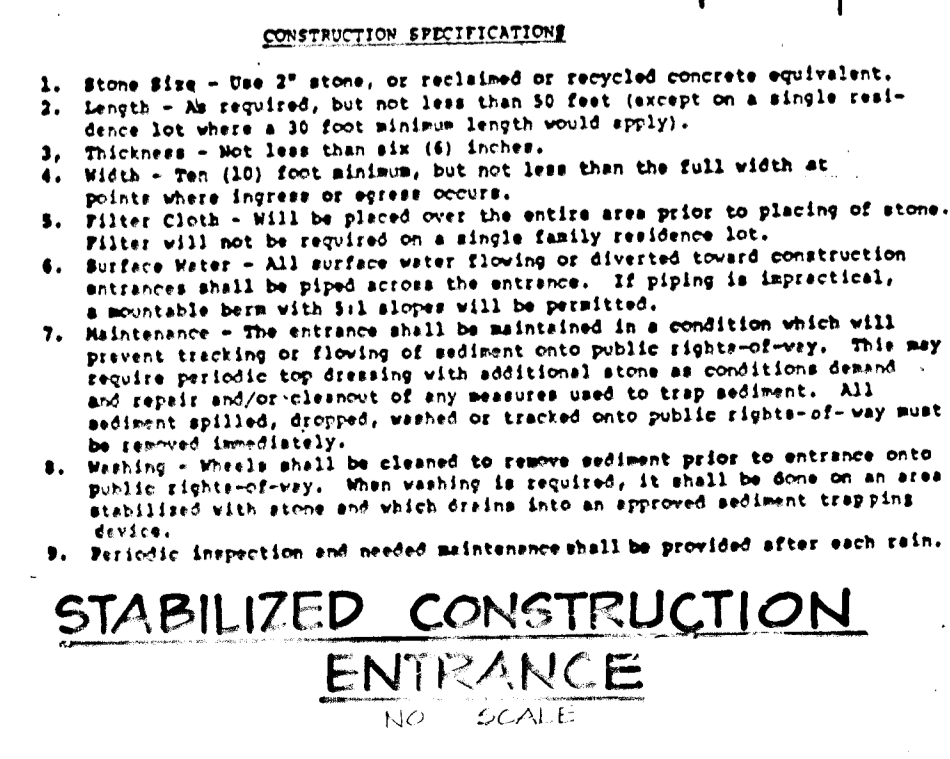
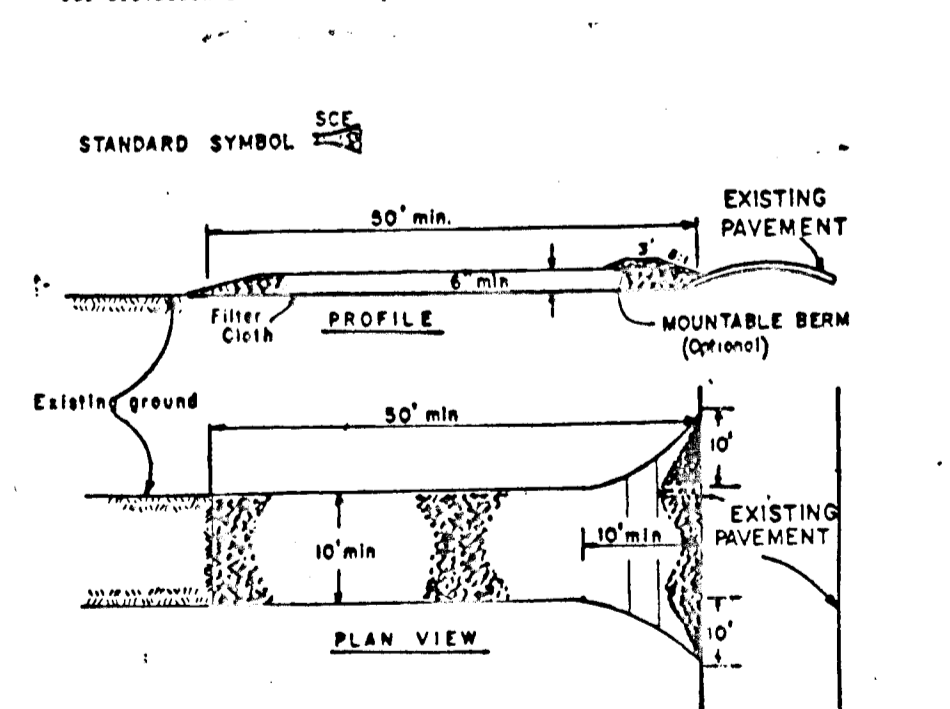
Seeding - For periods March 1 thru April 30 and from August 1 thru November 15, seed with 50 lbs per acre of annual ryegrass (2.2 lbs/1000 sq ft). For the period May 1 thru August 31, seed with 3 lbs per acre of weeping lovegrass (3 lbs/1000 sq ft). For the period November 16 thru February 28, protect area by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use mulch or no mulch.

Mulching - Apply 1/4 to 2 tons per acre (20 to 80 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using such anchoring tool as 2/8 gal/acre (5 gal/1000 sq ft) of unrotted asphalt on flat areas. On slopes 8 ft or higher, use 3/8 gal/acre (8 gal/1000 sq ft) for anchoring.



SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-5637).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 513 and (Sec. 56), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
Total Area of Site: 18.67 acres
Area to be roofed or paved: 3.11 acres
Area to be vegetatively stabilized: 2.66 acres
Total Cut: 4900 Cu. yds.
Total Fill: 2700 Cu. yds.
TOTAL TOP SOIL: 1700 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 DPW sediment control.
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 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."

Jamie D. Johnson 2/10/89
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. Murga 2-10-89
ENGINEER DATE

REVIEWED FOR HOWARD S.C.D. NAME S.C.D. AND MEETS TECHNICAL REQUIREMENTS

John M. Little 2/24/89
S.C.D. SOIL CONSERVATION SERVICE DATE

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Frank J. Taylor 6/15/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William H. Weiland 6/15/89
Chief, Land Development Division DATE

William H. Weiland 6/15/89
Chief, Bureau of Highways DATE

William H. Weiland 6-5-89
Chief, Bureau of Engineering DATE

DATE NO REVISION

OWNER/ THE DICKEY FAMILY % WALTER JOHNSON
DEVELOPER PRUDENTIAL-BACHE SECURITIES
250 W. PRATT ST. BALTIMORE, MD. 21201

PROJECT: COVENTRY MEADOWS
(SECTION ONE LOTS 1-G)

AREA TAX MAP NO. 5 PARCEL NO. 71
3 RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP AND DETAIL 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

2-10-89 DATE

AS-BUILT CERTIFICATION

J. Parekh 1.7.93
JAYKANT D. PAREKH # 1914B DATE

DESIGNED BY: M.C.M.
DRAWN BY: D.B.S.
PROJECT NO: 50702
DATE: JAN. 26, 1989
SCALE: AS SHOWN
DRAWING NO. 7 OF 7

F-89-28 AS BUILT 12-22-02