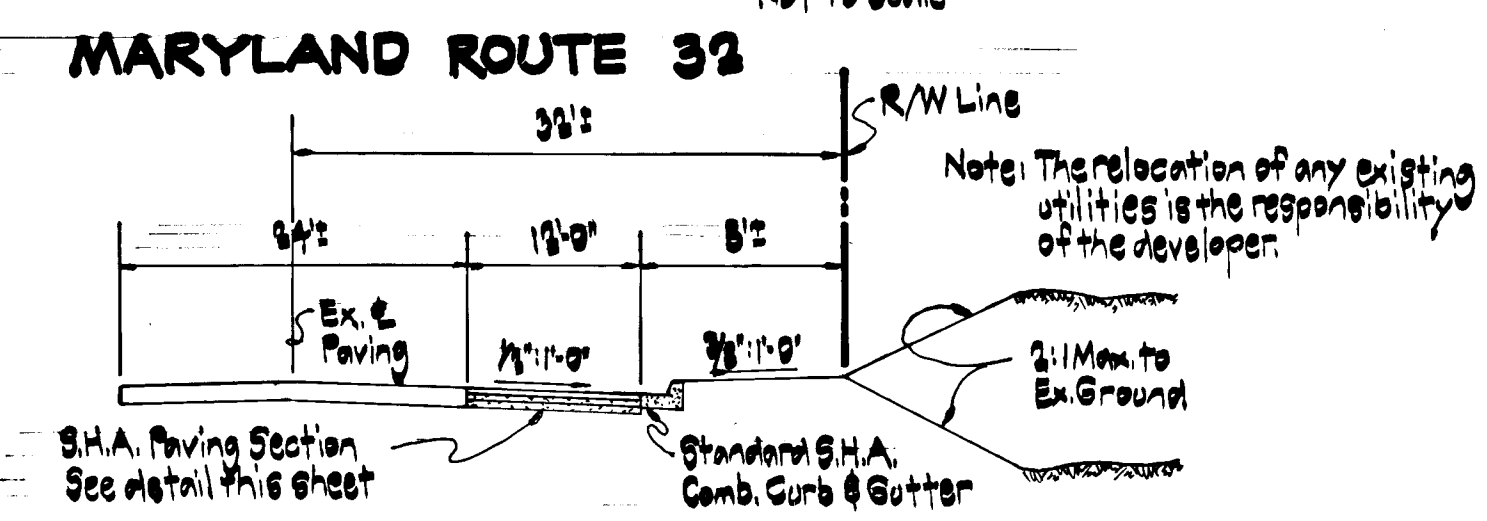


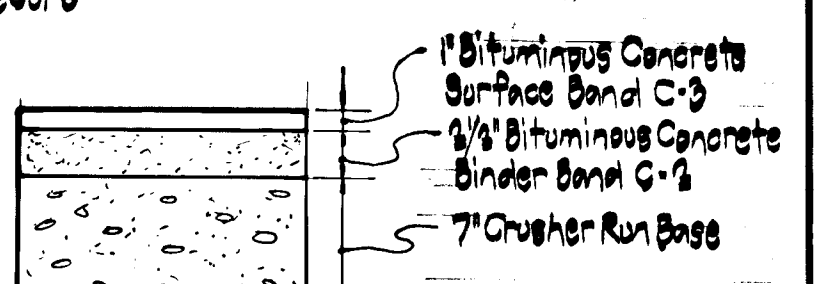
TYPICAL PAVING SECTION  
Not to Scale



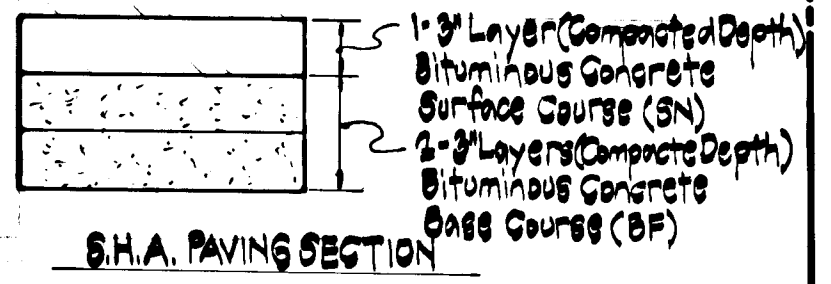
TYPICAL WIDENING SECTION  
Not to Scale

PAVING NOTES

1. Track out in accordance with Section C-31-4 of the Howard County Road Construction Code and Standard Specifications.
2. Base will be primed in accordance with Section C-30-3 of the Howard County Road Construction Code and Standard Specifications.

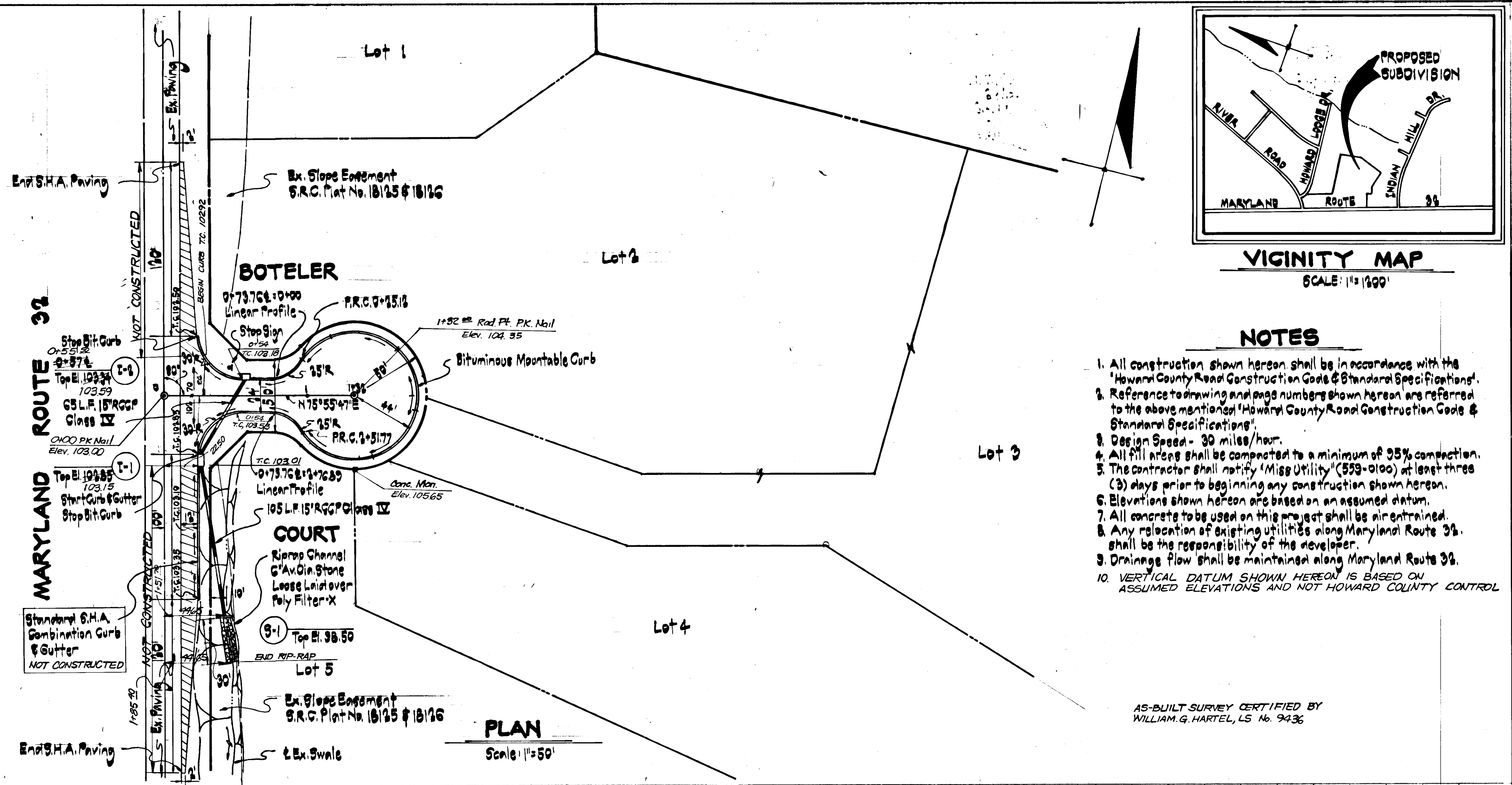


PAVING SECTION (Drwg. D-4, P.59)

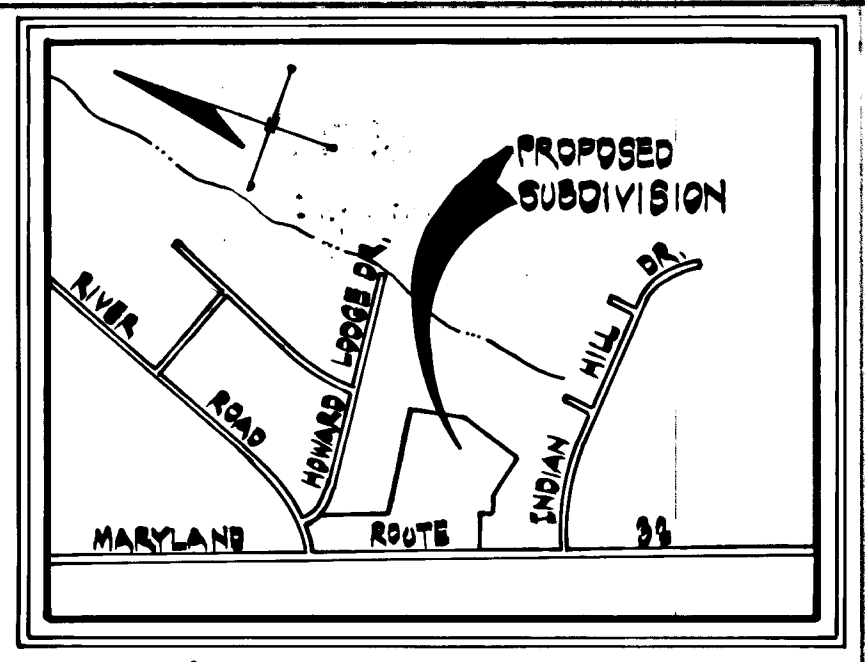


S.H.A. PAVING SECTION

Not to Scale



PLAN  
Scale: 1"=50'



VICINITY MAP  
SCALE: 1"=100'

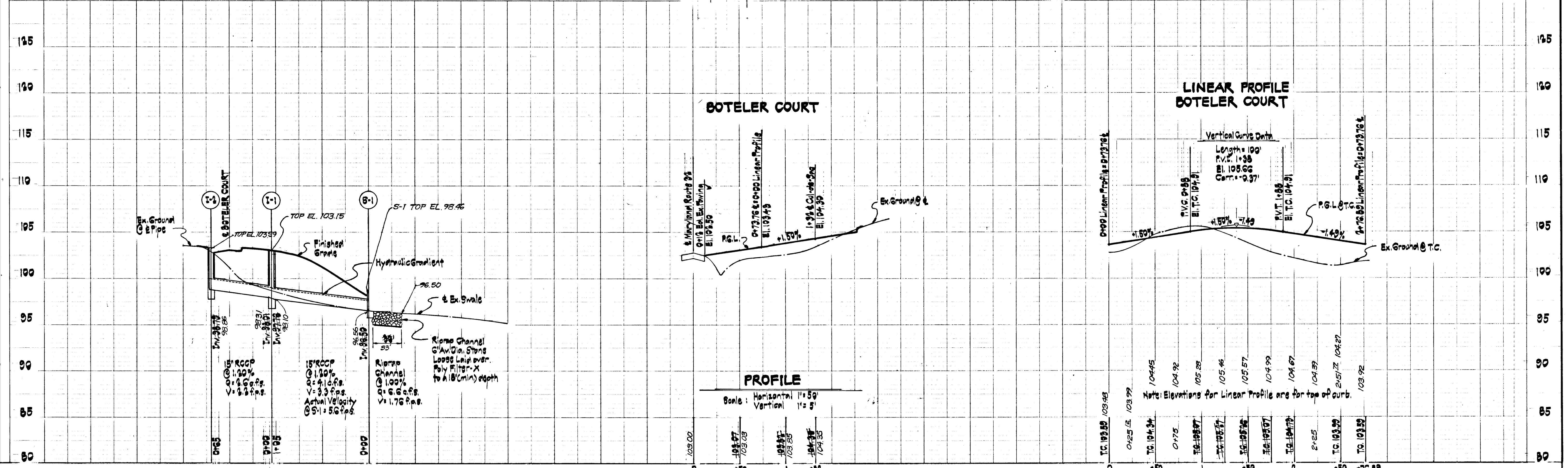
NOTES

1. All construction shown herein shall be in accordance with the Howard County Road Construction Code & Standard Specifications.
2. Reference to drawing and page numbers shown herein are referred to the above mentioned Howard County Road Construction Code & Standard Specifications.
3. Design Speed - 30 miles/hour.
4. All fill areas shall be compacted to a minimum of 95% compaction.
5. The contractor shall notify 'Miss Utility' (599-0100) at least three (3) days prior to beginning any construction shown herein.
6. Elevations shown herein are based on an assumed datum.
7. All concrete to be used on this project shall be air entrained.
8. Any relocation of existing utilities along Maryland Route 32 shall be the responsibility of the developer.
9. Drainage flow shall be maintained along Maryland Route 32.
10. VERTICAL DATUM SHOWN HEREON IS BASED ON ASSUMED ELEVATIONS AND NOT HOWARD COUNTY CONTROL.

AS-BUILT SURVEY CERTIFIED BY  
WILLIAM G. HARTSEL, LS No. 9436

STRUCTURE SCHEDULE					
No.	Type	Inv. In	Inv. Out	Top Elev.	Remarks
I-1	S.H.A. 'H'	98.94	99.76	102.85	MD-372.51 (4)
I-2	A-Sw/Deflectors	98.94	99.76	103.34	Drwg. D-34, P.119A
S-1	'C'	98.94	99.76	103.34	Drwg. D-34, P.107

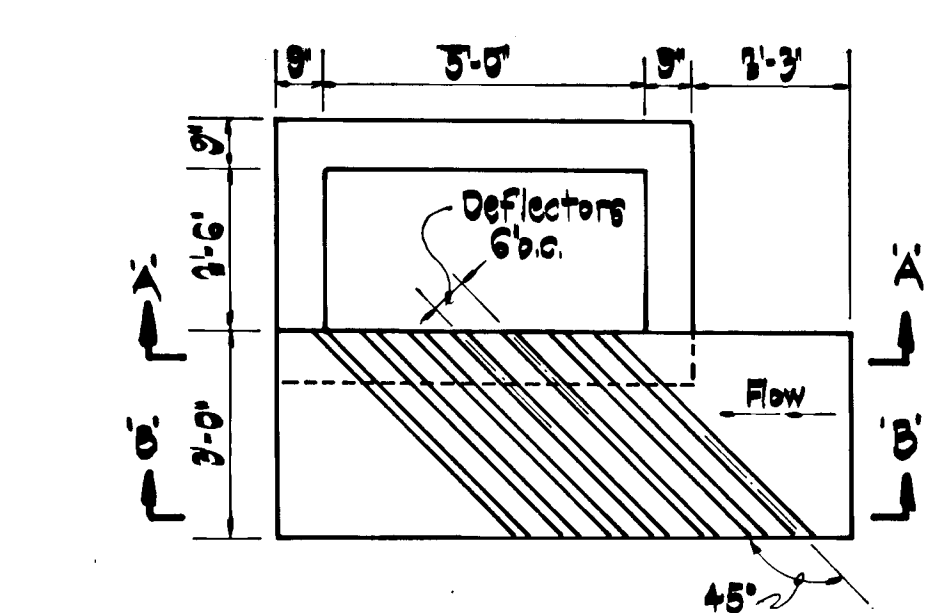
Note: All details taken from the Howard County Road Construction Code and Standard Specifications unless otherwise noted (\*). All (N) details taken from the State Highway Administration Book of Standard Highway and Incidental Structures.



PROFILE  
Scale: Horizontal 1"=50'  
Vertical 1"=5'

<p>APPROVED: Department of Public Works.</p> <p><i>W. O. Lister</i> 8-4-78 Chief, Bureau of Engineering Date</p> <p>APPROVED: Office of Planning and Zoning.</p> <p><i>William H. Brown</i> 8-1-78 Chief, Div. of Land Development Date</p>	<p>Reviewed for Howard Soil Conservation District and meets Technical Requirements.</p> <p><i>C. Wayne Ray</i> 8-1-78 U.S.D.A. Soil Conservation Service Date</p> <p>This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.</p> <p><i>Miss Ford</i> 8-1-78 District Coordinator, Howard S.C.D. Date</p>	<p>DEVELOPER'S CERTIFICATE</p> <p>I certify that all development and/or construction will be done according to this plan of development and plan for Erosion Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.</p> <p>John Boteler 5-15-78 Date</p>	<p>ENGINEER'S CERTIFICATE</p> <p>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.</p> <p><i>John F. Lippert</i> 3/16/78 John F. Lippert, Md. Reg. No. 8410 Date</p>	<p><b>CROVO &amp; ASSOCIATES, INC.</b></p> <p>CIVIL ENGINEERING LAND SURVEYING</p> <p>8665 OAK ROAD BALTIMORE, MD. 21234 301-661-9979</p>	<p>OWNER/DEVELOPER</p> <p>JOHN BOTELER 3515 THOMPSON DRIVE WEST FRIENDSHIP, MD 21094</p>	<p>PROPERTY OF</p> <p><b>HERITAGE FARMS</b></p> <p>3<sup>RD</sup> ELECTION DISTRICT HOWARD COUNTY, MD. MAY 15, 1978 SHEET 1 OF 2 SCALE: AS SHOWN</p>
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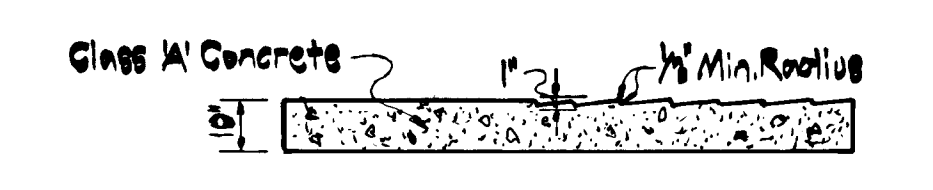




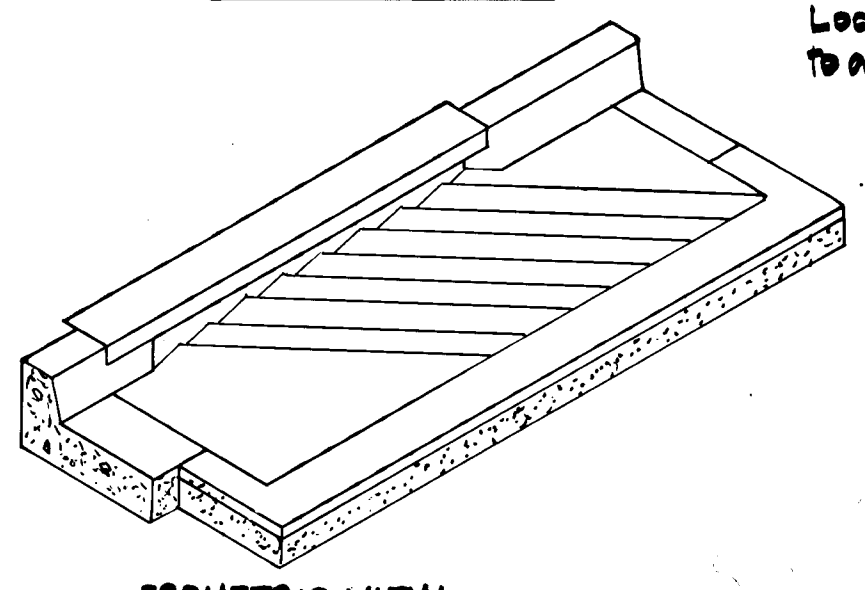
PLAN



SECTION 'A-A'

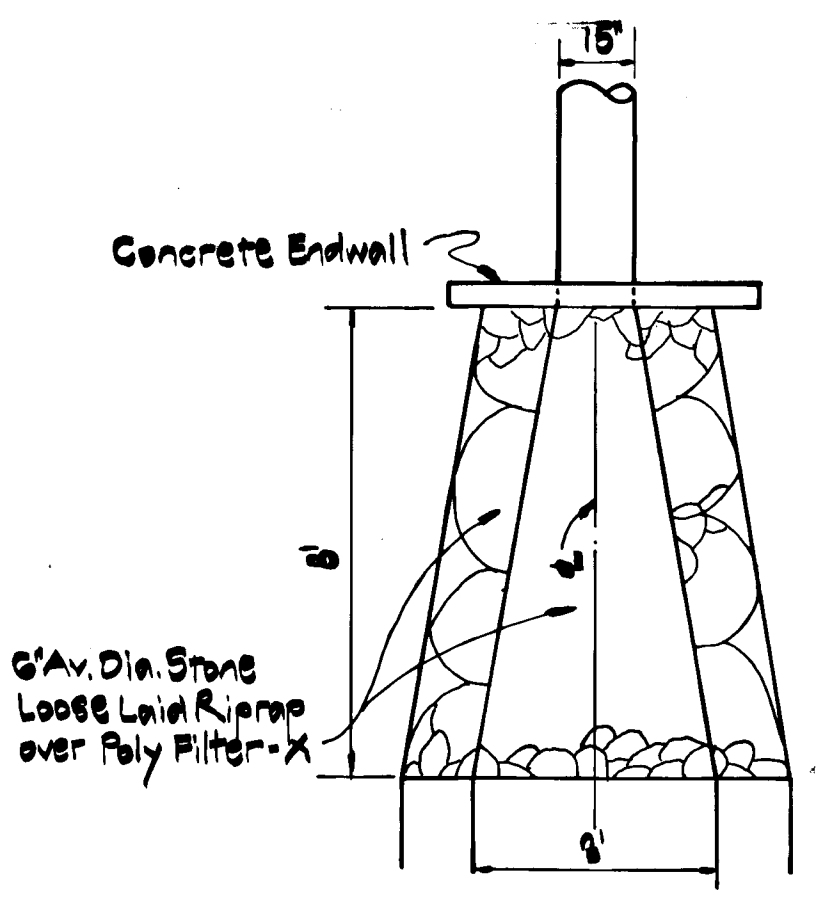


SECTION 'B-B'

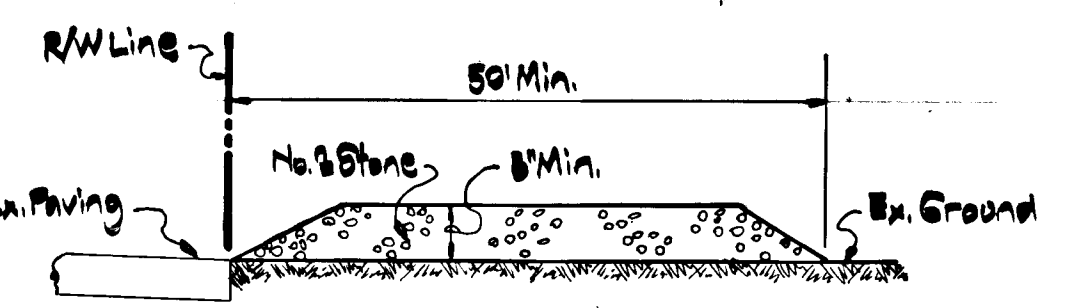


ISOMETRIC VIEW

TYPE 'A-5' INLET w/DEFLECTORS  
Not to Scale

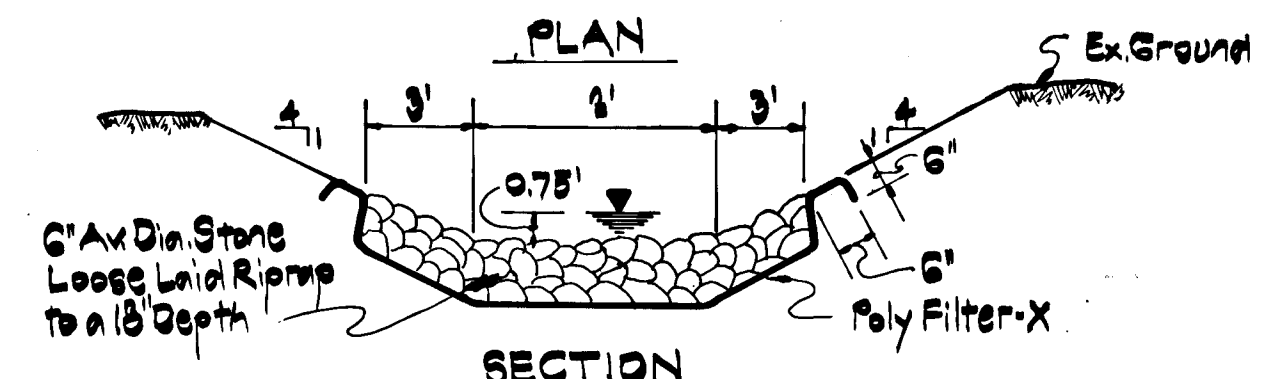


Concrete Endwall

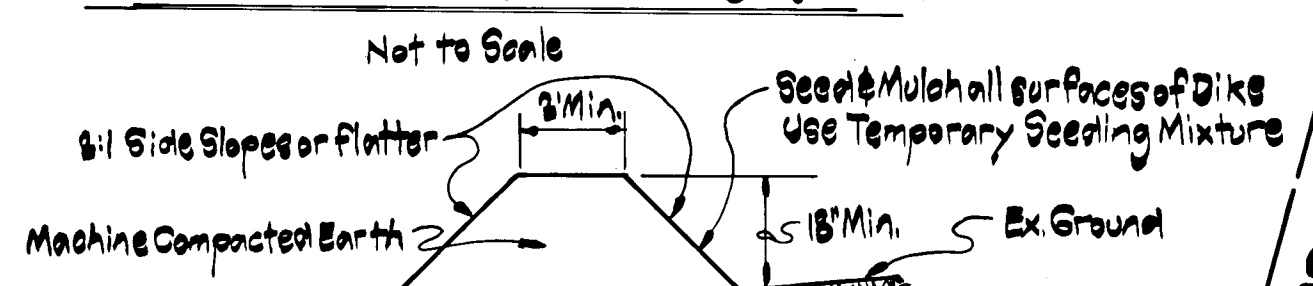


STABILIZED CONSTRUCTION ENTRANCE

Not to Scale

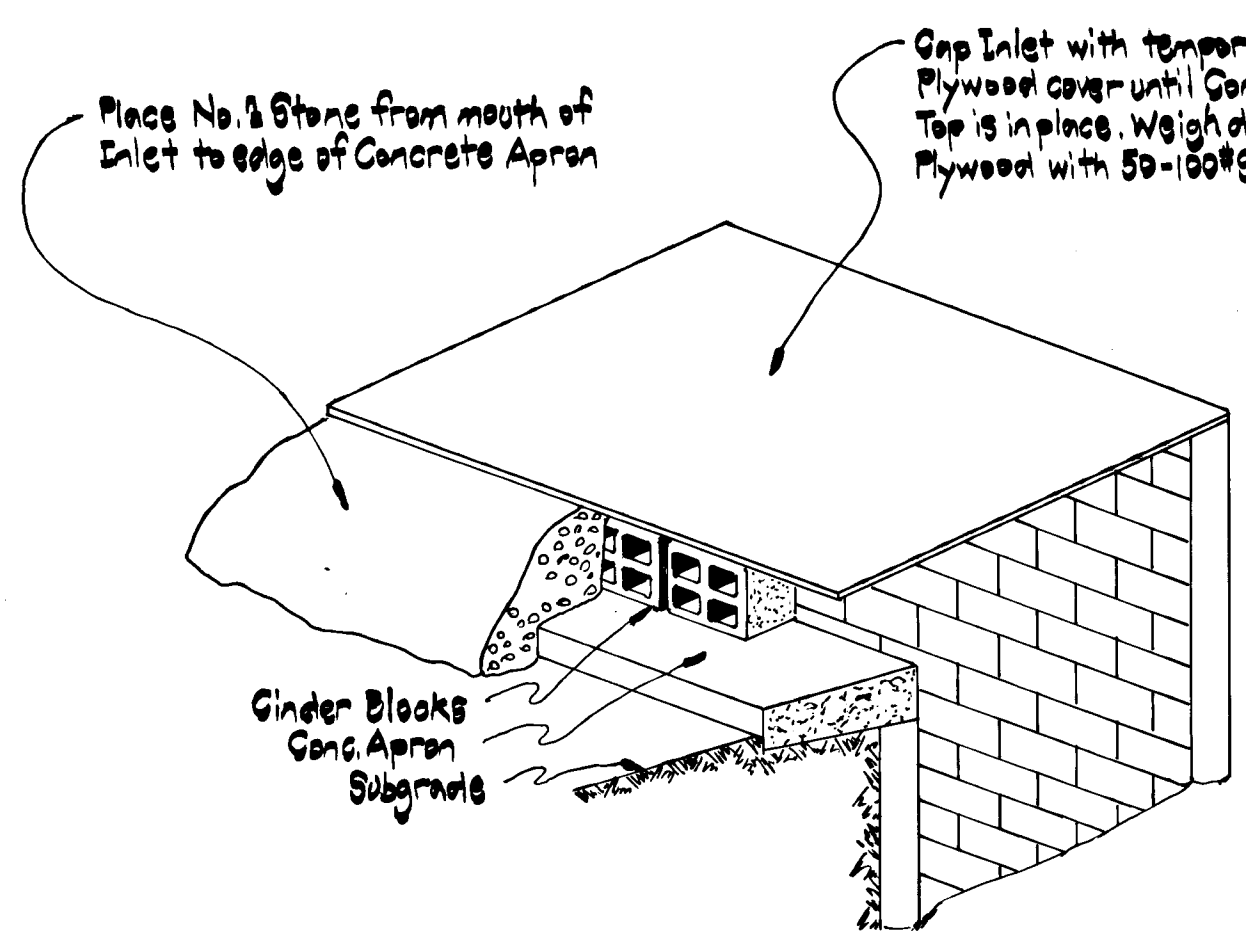


RIPRAP CHANNEL @ S-1



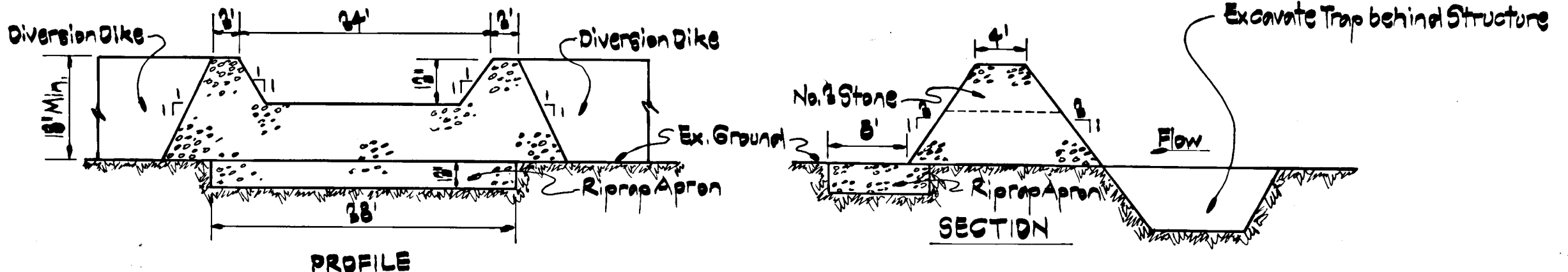
DIVERSION DIKE

Not to Scale



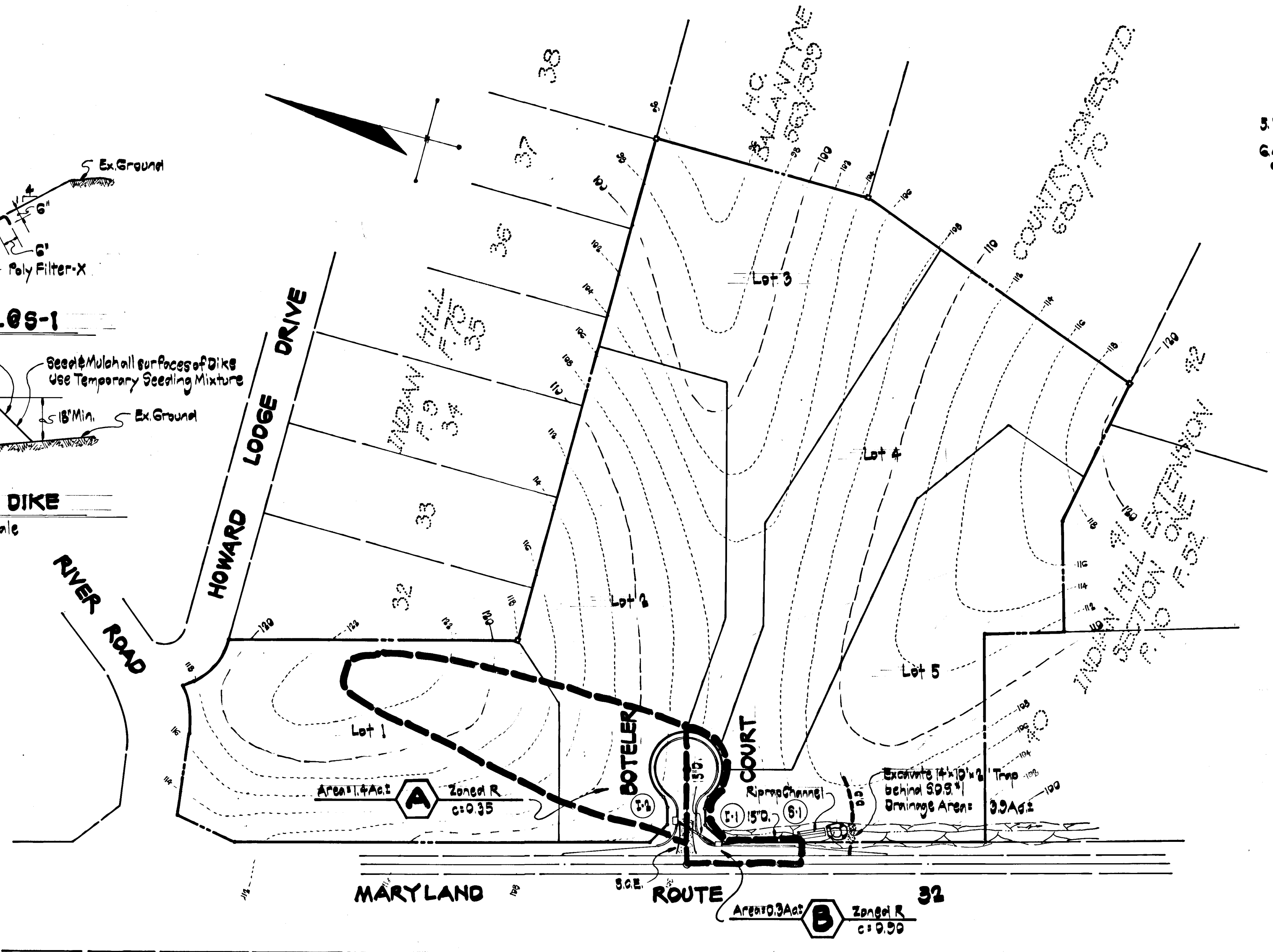
INLET PROTECTION

Not to Scale



STONE OUTLET STRUCTURE

Not to Scale



DRAINAGE AREA MAP

Scale: 1" = 100'

**SEDIMENT CONTROL NOTES**

- The developer shall notify the Howard County Bureau of Inspections and Permits at least 24 hours prior to beginning any construction shown herein (393-2455)
- All sediment control structures to be constructed prior to any site grading or disturbance to any existing surface material and are to be stabilized as soon as constructed
- All sediment control structures to remain in place until permission for their removal has been obtained from the Howard Soil Conservation District. (465-3470)
- All graded areas, not to be paved, shall be stabilized in accordance with the following:
  - Place 3" compacted layer of topsoil to finished grade.
  - Spread pulverized calcemic limestone at the rate of 40 lbs./1,000 sq. ft.
  - Spread 5-10-10 commercial grade fertilizer at the rate of 25 lbs./1,000 sq. ft. and immediately into soil to a 3" depth.
  - Seed prepared areas at the rate of 3 lbs./1,000 sq. ft. using the following mixture:
    - Temporary Seeding: 40% Perennial Ryegrass
    - Permanent Seeding: 40% Merion Kentucky Bluegrass, 40% Common Kentucky Bluegrass, 20% PennLawn
- All seeding shall be raked with a York Rake (minimum of 3 passes) and covered and compacted with a Gullpacker or other approved method.
- Mulch all areas immediately after seeding with unweathered small grain straw at the rate of 70 lbs./1,000 sq. ft. and spray with 8-mulchified asphalt at the rate of 0.04 gal./sq. ft.
- All seeded areas which do not show signs of germination within 4 weeks after seeding shall be reseeded or sodded if necessary.
- Periodic inspection and required maintenance must be provided by the developer or his representative on a daily basis to ensure proper functioning of all sediment control structures.
- All sediment control structures to be constructed in accordance with Division and the Storm-water and Specifications for Soil Erosion and Sediment Control in Developing Areas (G/75)

**CONSTRUCTION SEQUENCE**

- Obtain grading permit.
- Place stabilized construction entrances.
- Place all dikes, sediment traps and stone outlet structures.
- Place roadway to subgrade.
- Install storm drain system.
- Place riprap channel and grade existing swale.
- Stabilize existing swale in accordance with note 4.
- Stabilize all out and fill slopes in accordance with note 4.
- Lay pavement courses and bituminous mountable curb.
- Final grade slopes between curb and property lines.
- Stabilize in accordance with note 4.
- Remove sediment control structures.

**SITE ANALYSIS**

- Total Area of Subdivision: 15.5 Ac.
- Total Area to be Disturbed: 0.7 Ac.
- Total Area to be Paved: 0.8 Ac.
- Total Area to be Revegetated: 0.4 Ac.
- Total Area to be Undisturbed: 14.8 Ac.

APPROVED: Department of Public Works.  
*W. O. Fallick* 8-4-78  
Chief, Bureau of Engineering Date

Reviewed for Howard Soil Conservation District and meets Technical Requirements.  
*D. Wayne Ray* 8-1-78  
U.S.D.A. Soil Conservation Service Date

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
*Westover* 8-1-78  
District Coordinator, Howard S.C.D. Date

**DEVELOPER'S CERTIFICATE**  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.  
*John Boteler* 8-15-78  
John Boteler Date

**ENGINEER'S CERTIFICATE**  
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.  
*John F. Liparini* 8/1/78  
John F. Liparini, Md. Reg. No. 8418 Date

**GROVO & ASSOCIATES, INC.**  
CIVIL ENGINEERING  
LAND SURVEYING  
8609 OAK ROAD  
BALTIMORE, MD. 21234  
301-661-9373

**OWNER/DEVELOPER**  
JOHN BOTELER  
8515 THOMPSON DRIVE  
WEST FRIENDSHIP, MD. 21094

DRAINAGE AREA MAP, DETAILS & NOTES  
**PROPERTY OF**  
**HERITAGE FARMS**  
3<sup>RD</sup> ELECTION DISTRICT HOWARD COUNTY, MD.  
MAY 15, 1978 SHEET 2 OF 4 SCALE: AS SHOWN