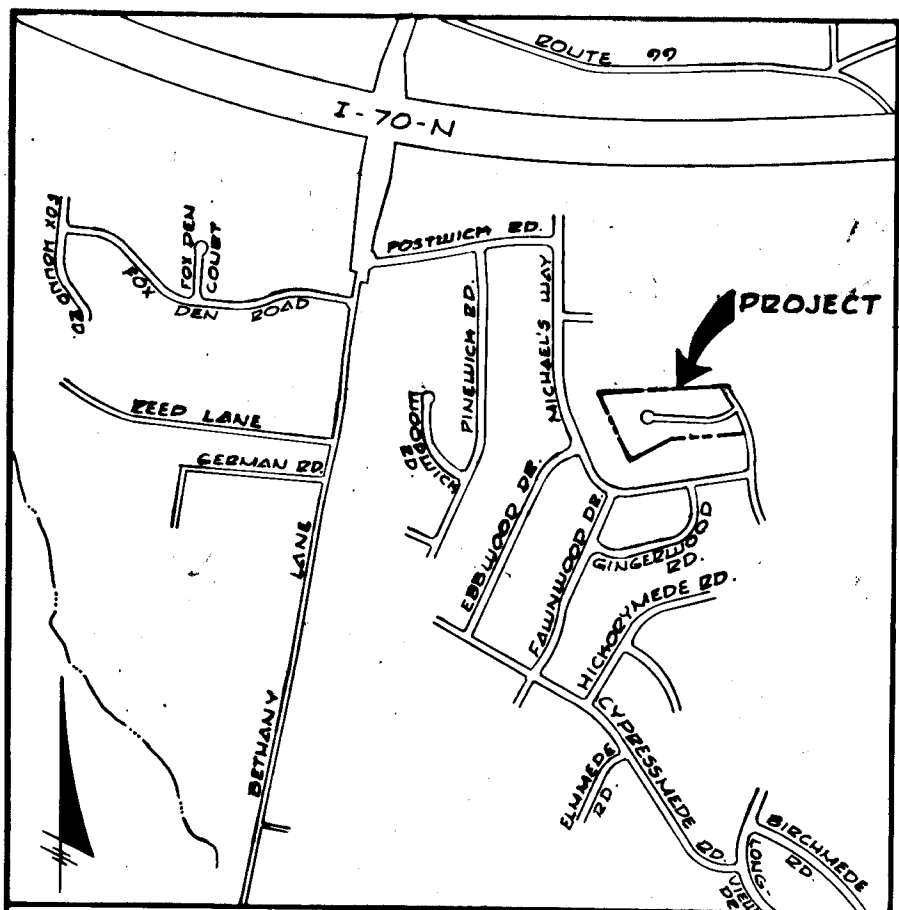


DATE: _____ BY: _____
 SURVYD. _____
 PLANNED. _____
 CHECKED. _____
 NO. _____



LOCATION MAP
 SCALE: 1" = 1200'
 CONSTRUCTION SEQUENCE

1. Construct temporary stabilized construction entrance.
2. Construct temporary perimeter dike and stone outlet structures.
3. Stabilize perimeter dike with temporary seeding.
4. Clear area to be graded.
5. Place roads to subgrade.
6. Stabilize roadway slopes with temporary seeding.
7. Construct storm drain, rip rap outlet protection apron.
8. Construct utilities (sewer, water, and electric)
9. Remove temporary stabilized construction entrance.
10. Lay roadway pavement and curb.
11. Fine grade slopes between curb and R/W lines.
12. Stabilize slope between curb and R/W line with permanent seeding.
13. Construct sod channel from rip-rap apron to 10 feet upstream stone outlet structure No. 2.
14. Maintain stone outlet structures as necessary.

BENCH MARKS

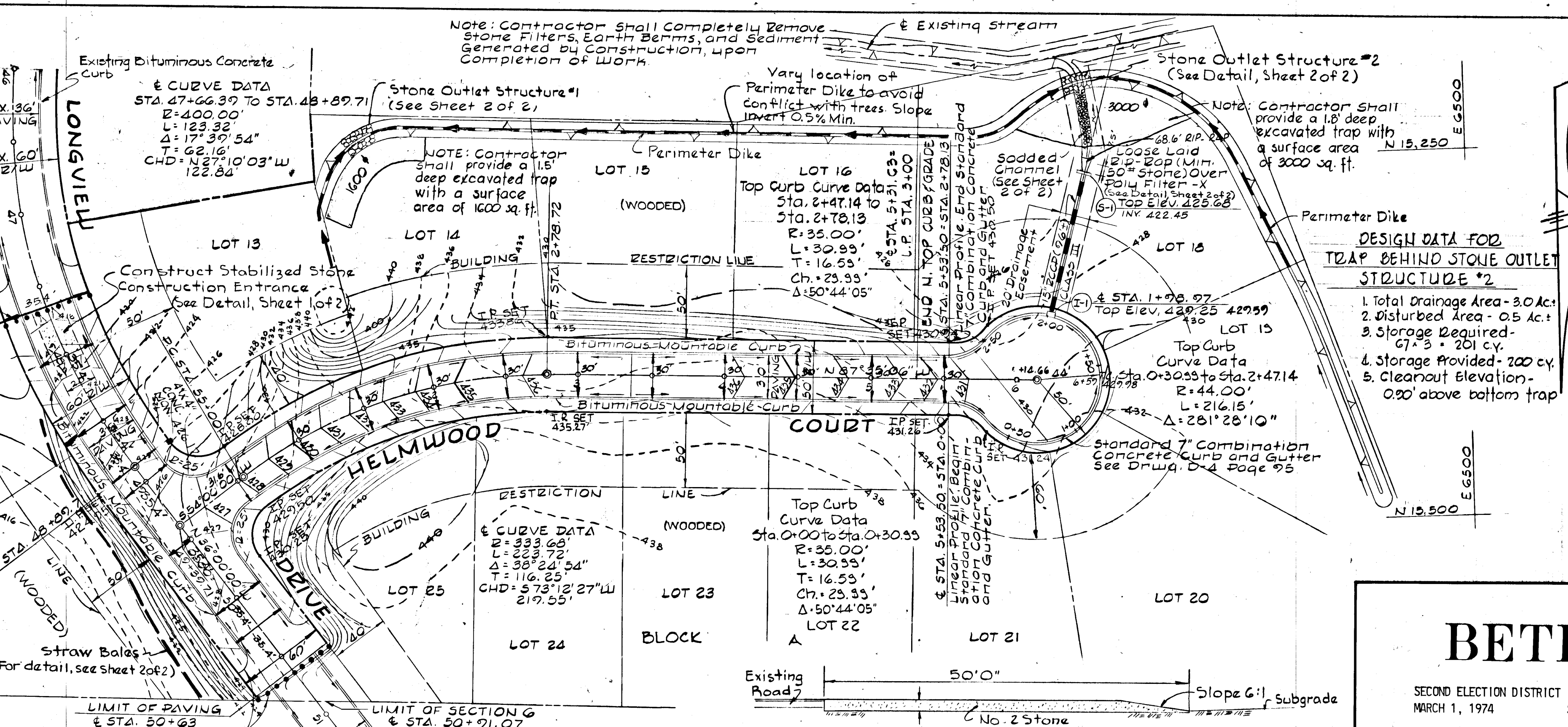
B.M. "Hickory" E1.433.02
 Road Side Fire Hydrant Bonnett
 Bolt Hickorymede Dr. across from
 Lots 35-36 (Valley Made, Sec. G)
 B.M. "Howie" E1.446.18
 3 Nails in G.I.E. #462628 Rear Lot
 20 Hickorymede Ct & Hickorymede
 Dr. (Valley Made, Sec. B)

DESIGN DATA FOR TRAP BEHIND STONE OUTLET STRUCTURE #1

1. Total Drainage Area - 1.3 Ac.
2. Disturbed Area - 0.5 Ac.
3. Storage Required - 67 x 1.3 = 87 c.y.
4. Storage Provided - 80 c.y.
5. Cleanout Elevation - 0.75' above bottom trap

Existing Bituminous Concrete Curb

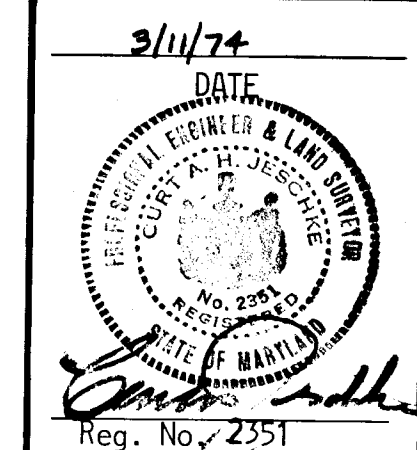
Remove Temporary Tee Turn Around and Dead End Barricade.



PLAN
 SCALE: 1" = 50'

STONE CONSTRUCTION ENTRANCE DETAIL
 NOT TO SCALE

- SITE ANALYSIS**
1. Total Area of Site - 9.416 Acres
 2. Total Area Disturbed - 1.86 Acres
 3. Total Area Vegetated - 0.5 Acres
 4. Total Area Paved - 0.75 Acres



DRAFTED BY: A.R. ZIERDAN
 DESIGNED BY: C.J.C. & J.L.
 CHECKED BY: R.B. CARTER

PURDUM AND JESCHKE
 CONSULTING ENGINEERS AND
 LAND SURVEYORS
 1023 N. CALVERT STREET
 BALTIMORE, MARYLAND 21202

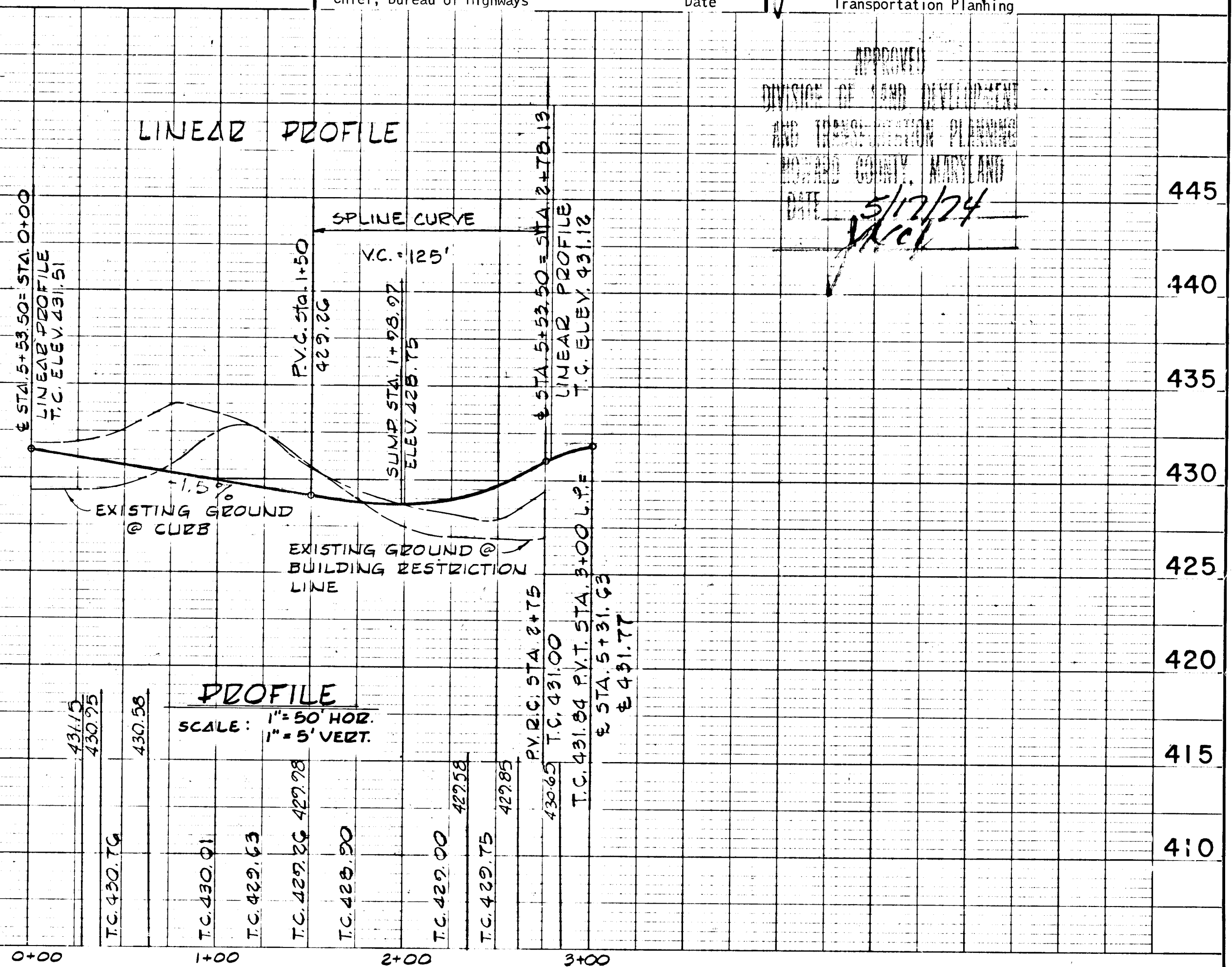
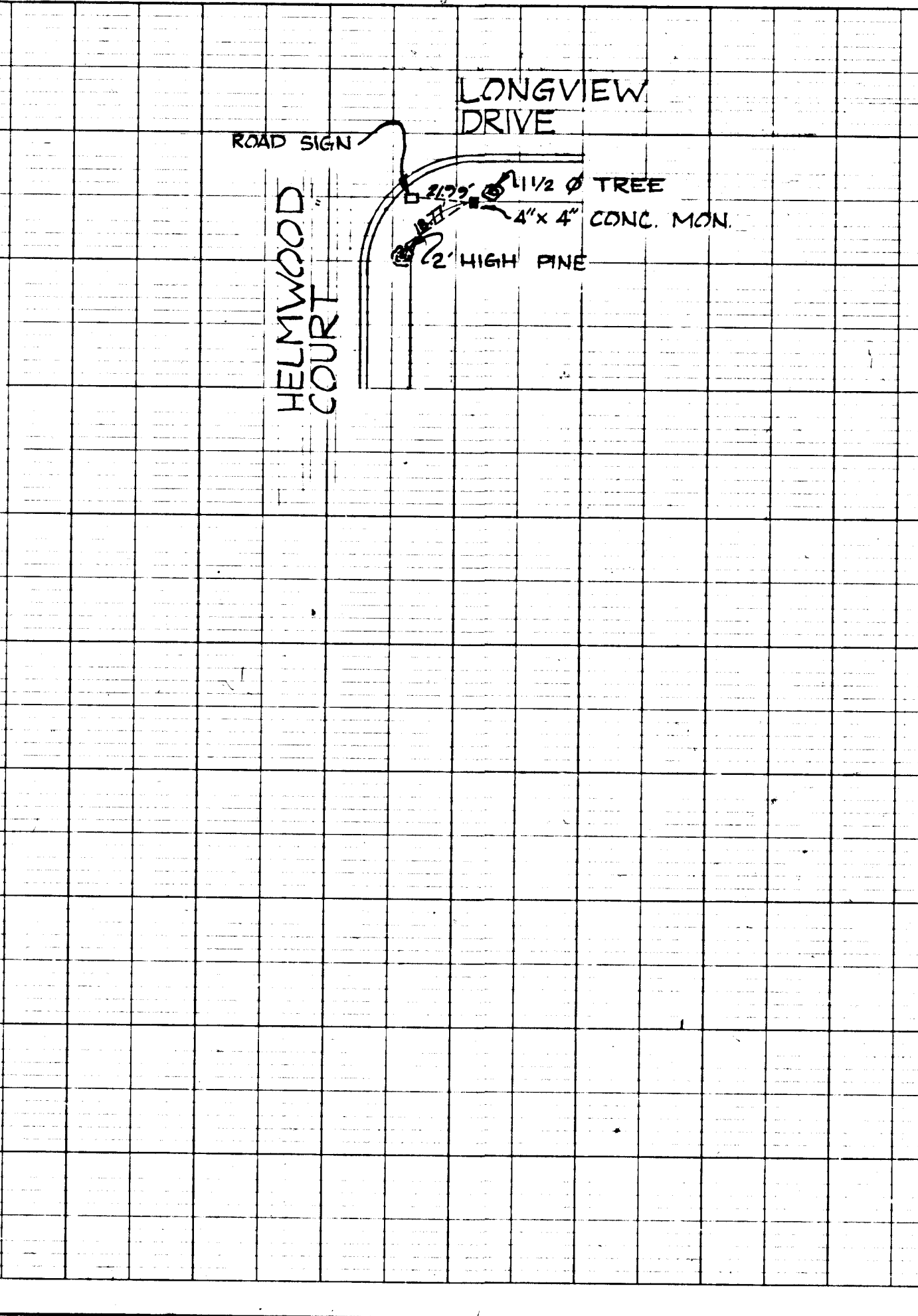
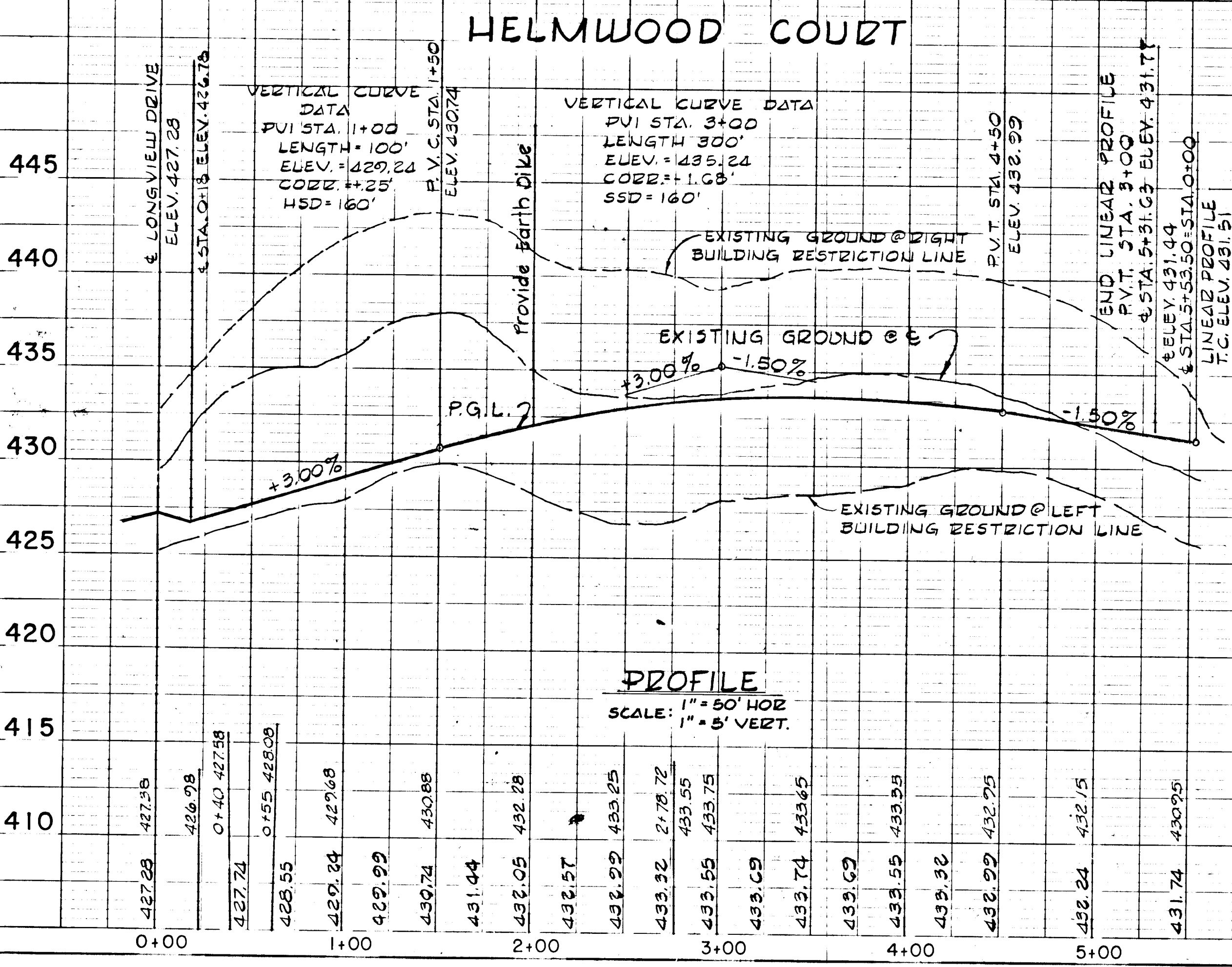
OWNER AND DEVELOPER
 ZENITH CONTRACTORS, INC.
 3014 HICKORYMEDE DRIVE
 ELLICOTT CITY, MARYLAND 21043

PLAN AND PROFILE

BETHWOOD

SECTION 6
 SECOND ELECTION DISTRICT
 MARCH 1, 1974
 SHEET 1 OF 2
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN

DATE: _____ BY: _____
 SURVYD. _____
 PLANNED. _____
 CHECKED. _____
 NO. _____



APPROVED: *[Signature]* 5/17/74
 Chief, Division of Land Development and Transportation Planning
 Date: 5/17/74

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment 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.

Eric V. Hormas
Signature of Developer
Date: 5/27/76

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.

Eric V. Hormas
Signature of Engineer
Date: 5/27/76

Reviewed for Howard County Soil Conservation District and meets Technical Requirements.

Eric V. Hormas
U.S. Soil Conservation Service
Date: 5/27/76

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: *Robert W. Zierdan*
District Coordinator
Howard Soil Conservation District
Date: 5/27/76

GENERAL NOTES

- All construction shown hereon shall be in accordance with the Revised Standard Detail AND specifications of The Howard County Road Department dated August, 1968.
- Reference to Page and Drawing Numbers shown hereon are referred to the above mentioned Revised Standard Detail and Specifications of The Howard County Road Department.
- Elevations shown are referred to The Howard County Geodetic Control Survey.
- Horizontal Control is based on an assumed datum.

Note:
Top width of Perimeter Dike shall be 4' wide 15' each side of stone outlet

STRUCTURE	TYPE	INV. IN	INV. OUT	TOP ELEV.	STD. DETAIL
I-1	A-B	423.00	428.75	428.75	P119-A Dwg 64-A
S-1	"C"	423.10	425.10	425.10	P107 Dwg. D-32

Note: Stone outlet structure shall be inspected after each rain and the sediment shall be removed after each rain.

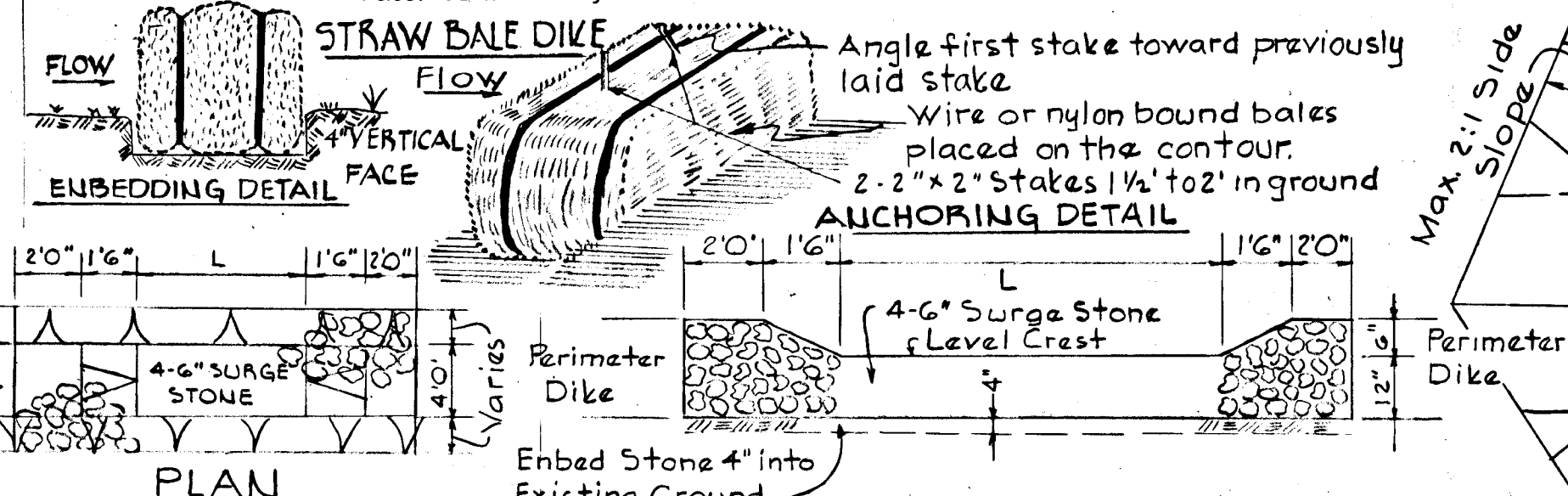
STATION	ELEVATION
440	
435	
430	
425	
420	
415	
410	
405	
400	
395	

SEDIMENT CONTROL NOTES

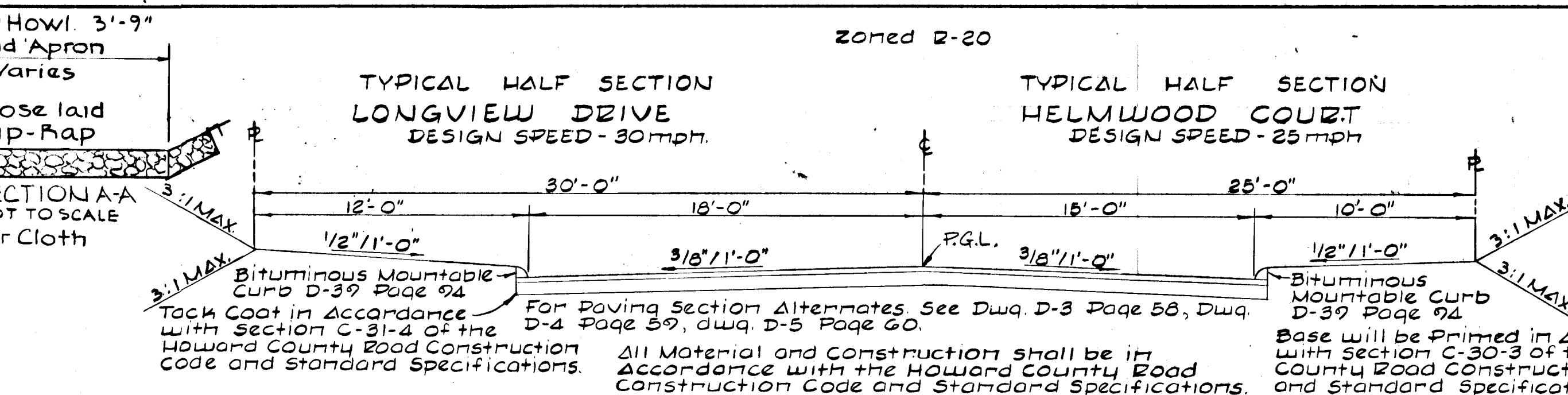
- The developer shall notify the Howard County Soil Conservation District at least 24 hours prior to beginning any construction shown hereon (465-3180).
 - Berms, sediment traps, etc., to be constructed prior to any onsite grading or disturbance to any existing surface material, and are to be stabilized 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. (465-3180 or 465-5000 Ext. 291).
 - All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
 - Site preparation:
 - Harrow or disc in areas proposed to be seeded the following materials at the specified rate, to a depth of 3":
 - Pulverized limestone at 1 1/2 tons/acre.
 - Commercial fertilizer 5-10-10 at 3/4 tons/acre.
 - Super phosphate at 600 lbs/acre.
 - Seeding:
 - Sow the following seed mixture at the rate of 40 lbs/acre with a mechanical spreader.
 - Temporary - Italian or Perennial Ryegrass
 - Permanent - Common Kentucky Bluegrass (certified)
 - Prepare site in accordance with Sediment Control Note 4)-1, prior to temporary seeding.
 - The seeded area shall then be raked with a York Rake (minimum of 2 passes), covered and compacted with Cultipacker or other approved method.
 - Mulching:
 - Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 to 2 tons/acre.
 - Tie mulch down with liquid asphalt at 0.1 gal/s.y. or emulsified asphalt at 0.04 gal/s.y..
- A conceptual grading plan shall be required prior to the issue of any building permits.

SODDING NOTES

- Apply 10-10-10 Fertilizer @ 1000 lbs./acre (25 lbs./1000')
- Apply Ground Agricultural Limestone @ 2000 lbs./acre (50 lbs./1000')
- Incorporate both lime and fertilizer into soil by discing. Firm up after incorporation.
- Lay sod to a tight fit. Roll to ensure contact with underlying soil. Water as necessary for first two weeks (in summer) to ensure establishment.

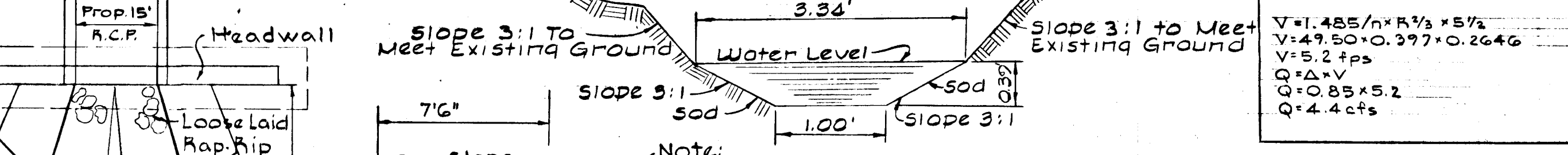


PLAN
STONE OUTLET STRUCTURE
NOT TO SCALE

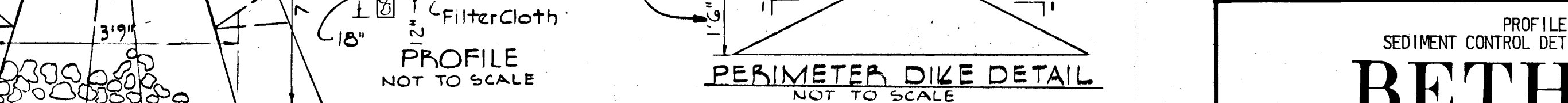


TYPICAL HALF SECTION
LONGVIEW DRIVE
DESIGN SPEED - 30MPH.

TYPICAL HALF SECTION
HELMWOOD COURT
DESIGN SPEED - 25MPH.



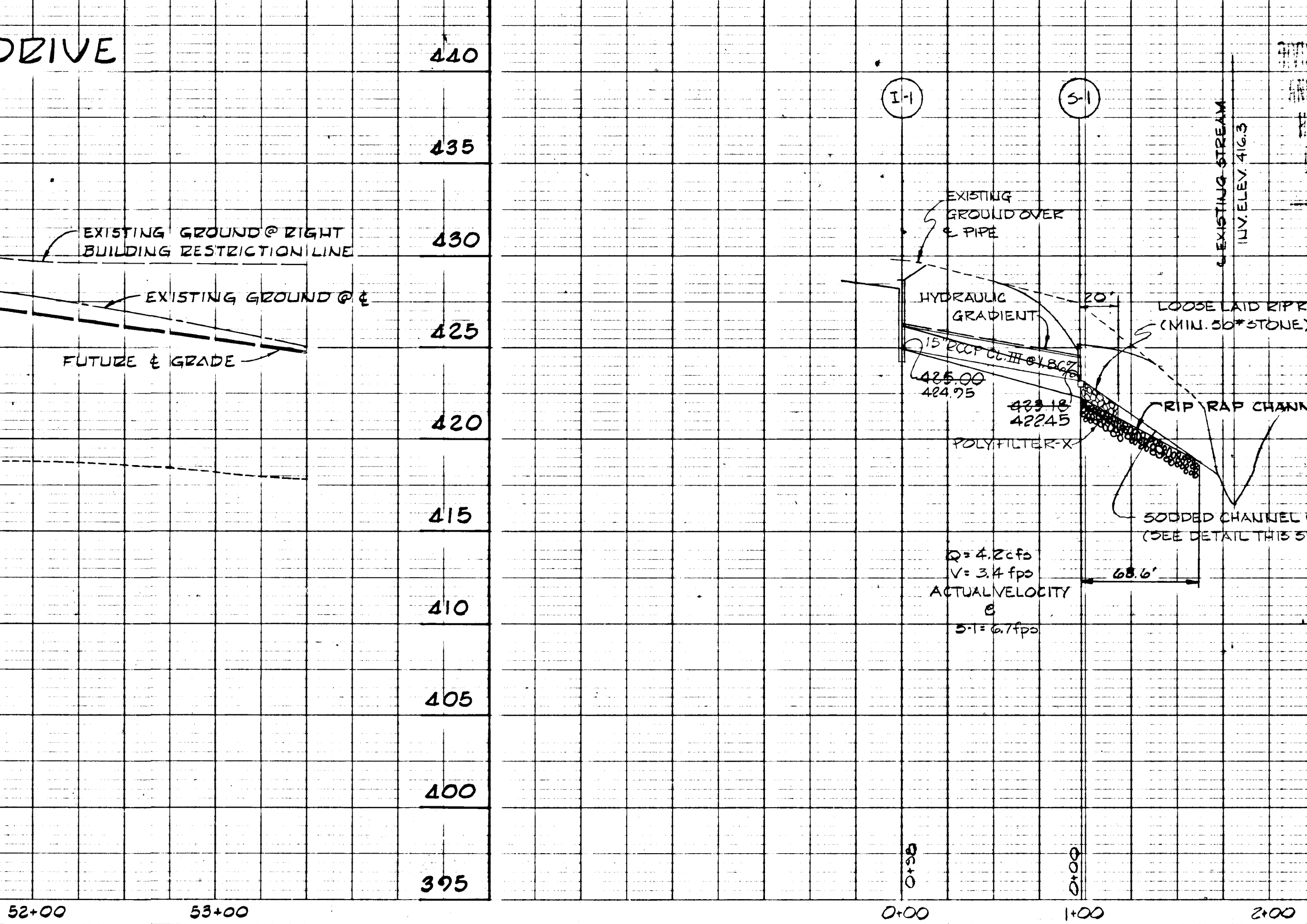
SODDED CHANNEL DETAIL
NO SCALE



PERIMETER DIKE DETAIL
NOT TO SCALE

STRUCTURE NO.	DRAINAGE AREA	LENGTH (L)
1	1.3	6 x 1.3 = 7.8'
2	3.0	6 x 3.0 = 18.0'

STONE OUTLET STRUCTURE DESIGN DATA



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

CHANNEL DESIGN DATA

$\Delta = 0.65'$
 $D = 3.46'$
 $R = 0.25$
 $R^2 = 0.397$

$n = 0.03$
 $S = 0.07$
 $S^2 = 0.2646$
Water
Depth = 0.39'

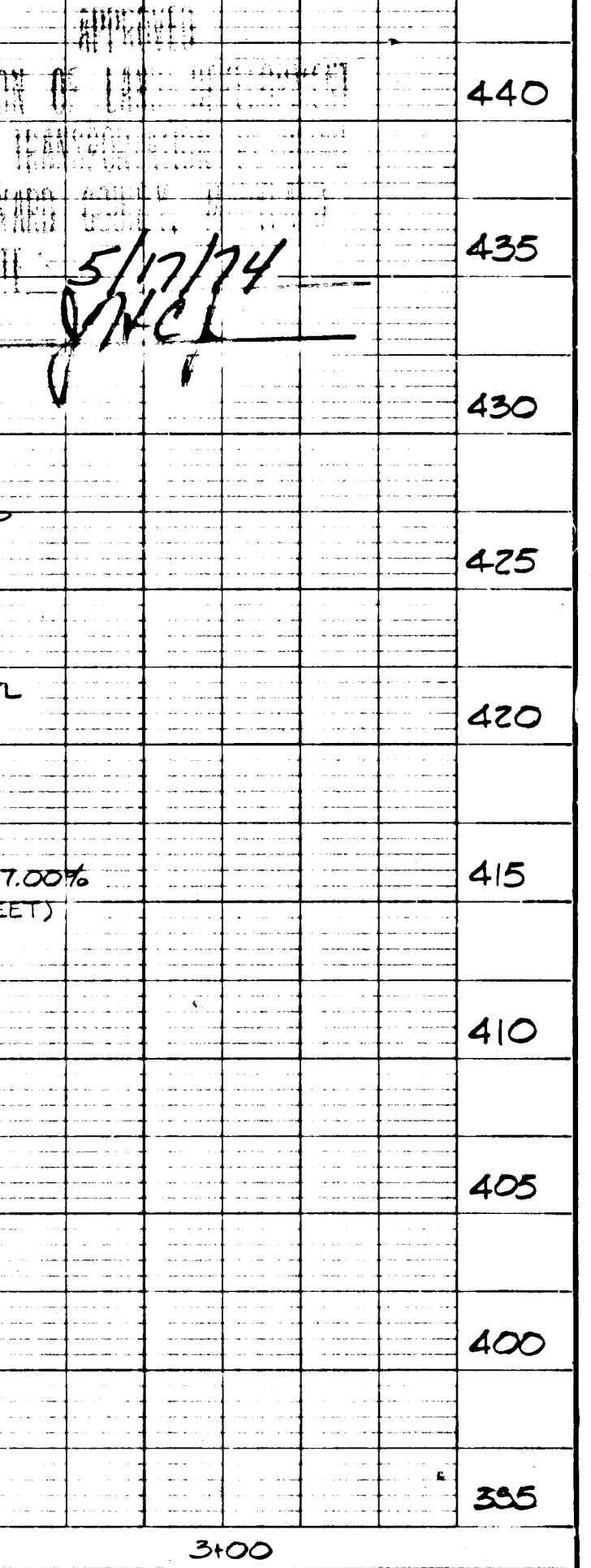
DRAFTED BY: A.R. ZIERDAN
DESIGNED BY: C.J.C. & J.I.
CHECKED BY: R.B. CARTER

PURDUM AND JESCHKE
CONSULTING ENGINEERS AND
LAND SURVEYORS
1023 N. CALVERT STREET
BALTIMORE, MARYLAND 21202

OWNER AND DEVELOPER
ZENITH CONTRACTORS, INC.
3014 HICKORYMEDE DRIVE
ELLCOTT CITY, MARYLAND 21043

PROFILE: LONGVIEW DRIVE
SEDIMENT CONTROL DETAILS AND STORM DRAIN PROFILES
BETHWOOD
SECTION 6
SECOND ELECTION DISTRICT
MARCH 1, 1974
SHEET 2 OF 2
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN

J.H. Clowart
Chief, Division of Land Development and
Transportation Planning
Date: 5/20/76



PLAN
NOT TO SCALE

PLAN
REVISED
PLOTTED
CHECKED
BY: M.A. NOTES
NO. OF WAY CHECKED

PROFILE
REVISED
PLOTTED
CHECKED
BY: M.A. NOTES
NO. OF WAY CHECKED