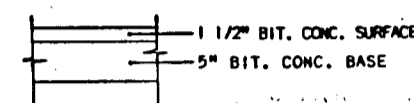


- NOTES:**
- NO GUARDRAIL IS REQUIRED ON CLOVER HILL DRIVES.
 - SEE THE STORM DRAINAGE DESIGN MANUAL FOR CRITERIA GOVERNING DITCH LINING AND SPREAD OF FLOW. THE DITCH SECTION MAY BE MODIFIED TO MEET THE SPREAD CRITERIA.
 - THIS SECTION APPLIES ONLY TO CUL-DE-SAC STS. WITH A.D.T. OF 500 OR LESS. OPEN SECTION - "R" DISTRICT.

TYPICAL ROAD SECTION

CLOVER HILL DRIVE, NOT TO SCALE
 STA 0+00 TO STA 1+39.76
 EX. ZONING: "R", CUL-DE-SAC



TYPICAL PAVING SECTION-P2
 CLOVER HILL DRIVE

CURVE DATA
 CURVE Δ TANGENT RADIUS LENGTH CHORD DIST
 A 27°30' 73.42' 300.00' 144.00' N 58°24'29" W, 142.62'

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 Stephen L. Huber 6-12-86
 U.S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Stephen L. Huber 6/12/86
 SOIL CONSERVATION DISTRICT DATE

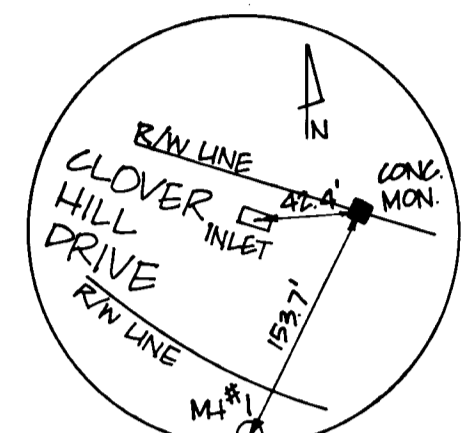
VICINITY MAP

SEE SHEET 2 OF 3

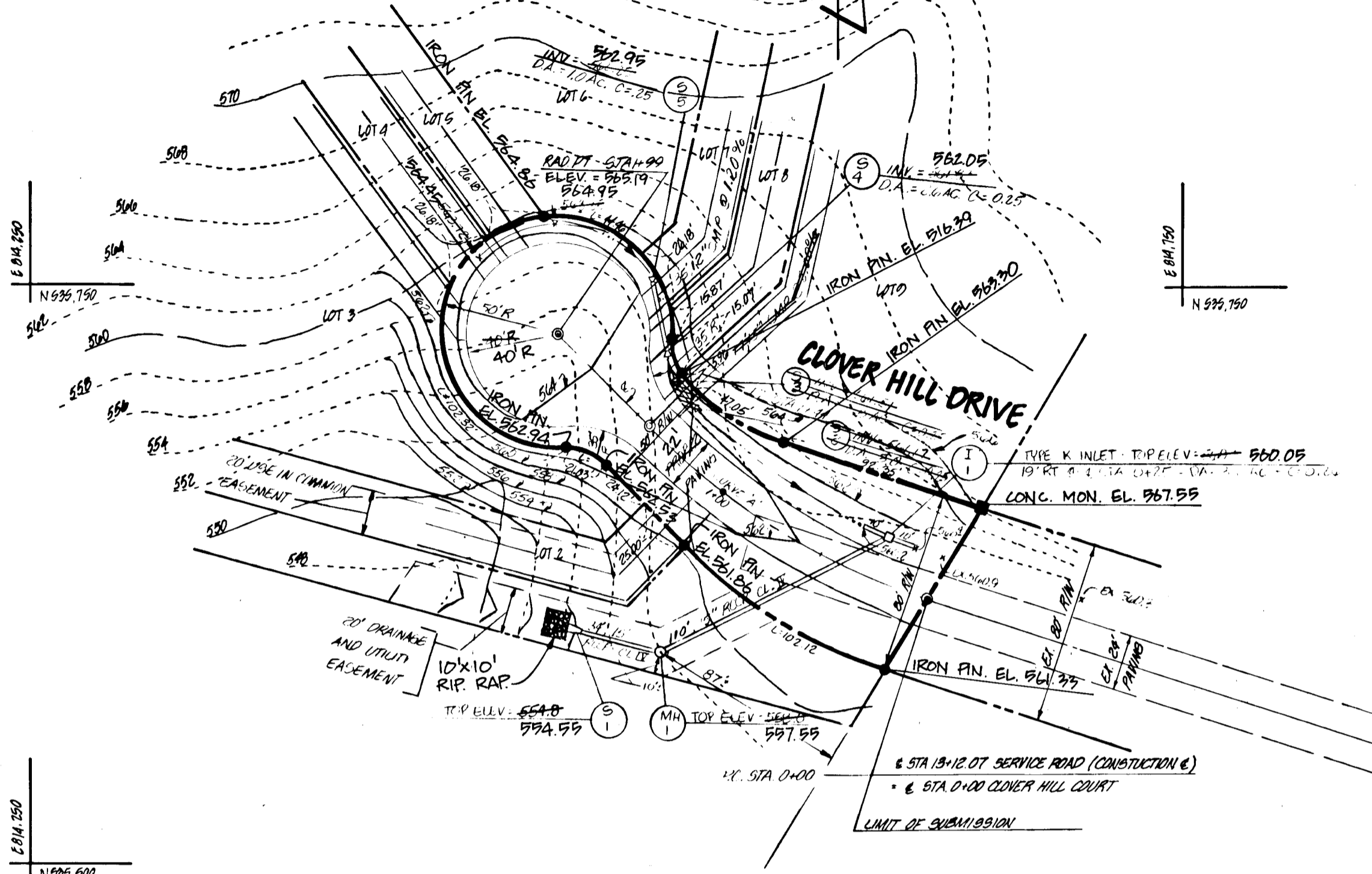
GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. II, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROPRIATE 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 ALL EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 MISS UTILITY 558-0100
 BELL TELEPHONE SYSTEM 392-3543 OR 3354
 LONG DISTANCE AND ELECTRIC COMPANY 330-8000, EXT. 691
 HOWARD COUNTY BUREAU OF UTILITIES 992-2360
 HOWARD COUNTY CONSTRUCTION/INSPECTOR DEVEPT DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK) 792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETAINERS SHALL HAVE 30.0" BASTI UNLESS OTHERWISE NOTED.
- STORM DRAIN STRUCTURES WITHIN ROAD RIGHT-OF-WAY SHALL BE RECESSED AND CONTACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LAYOUT CALLS FOR IT. EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
 50 MPH (REDUCED TO 25 MPH.)
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE CONSTRUCTED TO A MINIMUM OF 9% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SEWER PROPERTY ZONES "R" PER 10-03-77 COMPENSATORY ZONING PLAN.
- TOPO TAPE FROM FIELD SURVEY DATED JAN. 7, 1980.
- NO PIPE SHALL BE LAYED UNTIL LINES OF EXCAVATION HAVE BEEN PROTECT WITHIN 4' OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "B" SHOWN IN FIG. 11.1, VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.

APPROVED: DEPARTMENT OF PUBLIC WORKS
 [Signature] DATE
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: OFFICE OF PLANNING AND ZONING
 [Signature] DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



RECOVERY SKETCH
 NOT TO SCALE



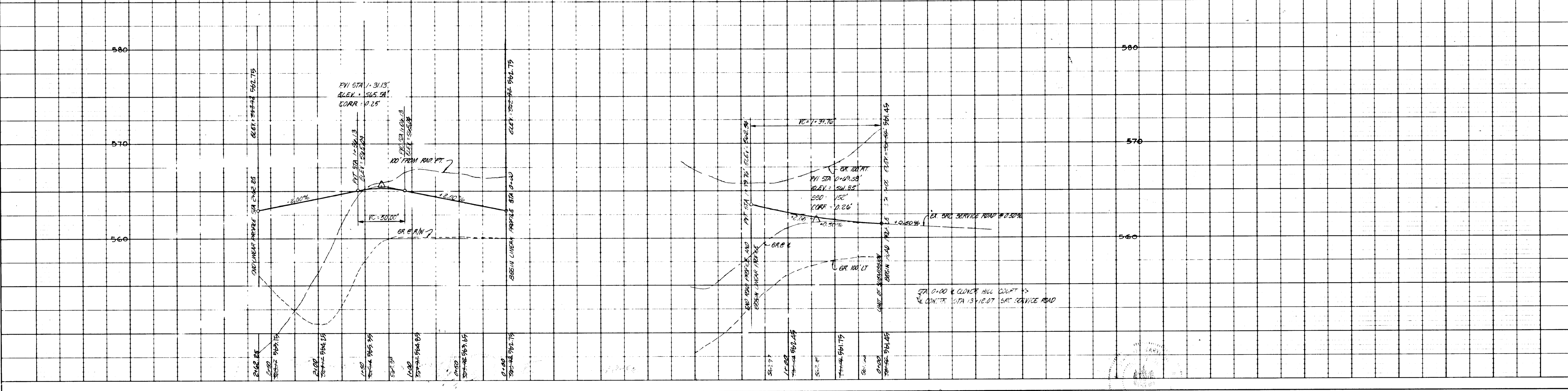
TITLE ROAD CONSTRUCTION PLAN		boender associates inc. consulting engineers land surveyors land planners
PROJECT CLOVER HILL FARMS		
LOCATION TAX MAP 15 PARCEL 14 APC FILE NOS. 5-86-26, P.36-35 3 RD ELECTION DISTRICT HOWARD CO., MD.		COURTHOUSE SQUARE 3565 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD 21043 13011 465-7777
SCALE: AS NOTED	DESIGNED BY: JTN	
FIELD BOOK: 75	PAGE NO.: 67	
JOB NO.: 85285	DRAWING NO.: 1 OF 3	

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 [Signature] DATE 4/15/86

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] DATE 4-11-86

CLOVER HILL DRIVE

NOTES:
 A) SSD CALCULATED USING $[SSD = 3.675 \sqrt{\frac{V^2}{g(e-9)}}]$
 V = 25 MPH
 g = 32.2 ft/sec²
 e = 0.15
 DESIGN SPEED = 25 MPH
 B) DESIGN SPEED REDUCED PER HOWARD COUNTY DESIGN MANUAL III, TABLE 2.01, FOOTNOTE "AAA"



1219

INTERSTATE - 70
(S.R.C. PLAN NO. 41600)

TO BALTIMORE

VICINITY MAP
SCALE 1" = 100'

GENERAL NOTES

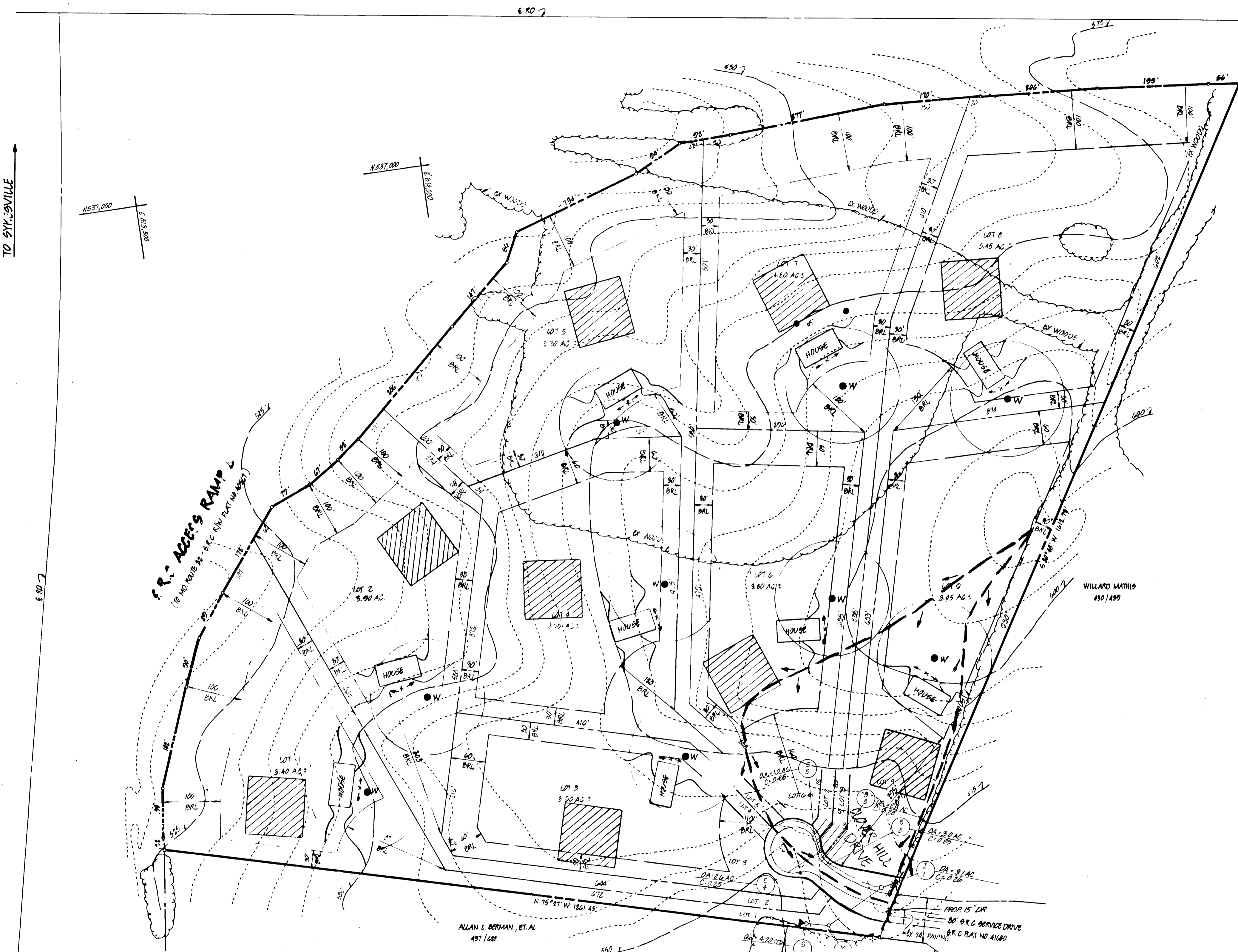
- TAX MAP: 19, BLOCK: 11, PARCEL: 14
- DEED REFERENCE: 1001/1416
- EXISTING CONING: R
- PRIVATE WATER AND PRIVATE SEWERAGE TO BE UTILIZED.
- MINIMUM LOT SIZE: 3 ACRES
- TOTAL NO. OF LOTS: 9
- TOTAL AREA OF LOTS: 30.00 AC
- TOTAL AREA OF ROAD CIRCULATION: 0.50 AC
- TOTAL AREA OF SITE: 30.50 AC
- SEWERAGE CONTROL MEASURES TO BE PROVIDED ON FINAL ROAD CONSTRUCTION PLANS
- VERTICAL DATA BASED ON HOWARD COUNTY 1" = 500'
- BOUNDARY SHOWN HEREON IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.

THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOTS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE. THIS AREA DESIGNATES A PRIVATE SEWERAGE SYSTEM OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE PROHIBITED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE IMPROVEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR IMPROVEMENTS INTO THE PRIVATE SEWERAGE SYSTEM. REVISIONS OF A MODIFIED SEWERAGE SYSTEM SHALL NOT BE NECESSARY. ALL PERCOLATION TEST VALUES SHOWN HEREON HAVE BEEN FIELD OBTAINED AND SHOWN HEREON (0)

PERCOLATION TEST DATA

LOT NO.	AVERAGE PERC TIME IN MIN FOR 2' NO INCH	MAX. DEPTH PERMITTED FOR PERMITTING PIPE TO ENTER SEWERAGE DISPOSAL AREA AT ITS DEEPEST LEVEL WITH REF TO EX GRADE AT TIME OF TEST
1	3 MIN.	4'
2	4 "	4'
3	3 "	3'
4	5 "	4'
5	4 "	4'
6	3 "	4'
7	3 "	3'
8	4 "	4'
9	18 "	5'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James H. Gyles 3-3-86
 HOWARD COUNTY HEALTH OFFICER DATE



CURVE DATA

CLOVER HILL CURVE STA 0+00 TO STA 1+40
 R = 125', L = 140', T = 78.5'

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

DEVELOPER: *John A. Hill* DATE: 4/15/86

ENGINEER'S CERTIFICATE

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

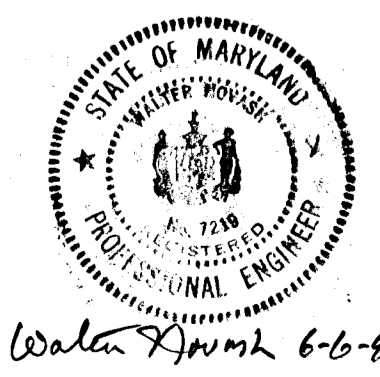
ENGINEER: *Walter Dornish* DATE: 4-11-86

APPROVED: DEPARTMENT OF PUBLIC WORKS
William B. Perry 6-18-86
 CHIEF, BUREAU OF ENGINEERING DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
Stephan L. Huber 6-18-86
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: OFFICE OF PLANNING AND ZONING
John M. Mackinnon 6-18-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephan L. Huber 6/12/86
 SOIL CONSERVATION DISTRICT DATE



OWNER & DEVELOPER
 BROOKE LEE FAMILY PROPERTY, INC.
 1930 GEORGIA AVENUE
 WHEATON, MARYLAND 20896
 TEL: 305-7000

TITLE	DRAINAGE AREA MAP		
PROJECT	CLOVER HILL FARMS		
LOCATION	75X MAP 15	DISTRICT	14, R.F. 11, FILE NO. 6-R-21, V.P. 8-30
	RD	ELECTION DISTRICT	HOWARD CO., MD.
SCALE	1" = 100'	DESIGNED BY	JTH
		DRAWN BY	D.P.
		CHECKED BY	D.R. M.H.L.
		DATE	MARCH 1986
FIELD BOOK	PAGE NO.	JOB NO.	DRAWING NO.
		85200	2 OF 3

boender associates inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3885 BELMONT HILLS DRIVE
 BELMONT CITY, MD 20813
 1201 455-7177

