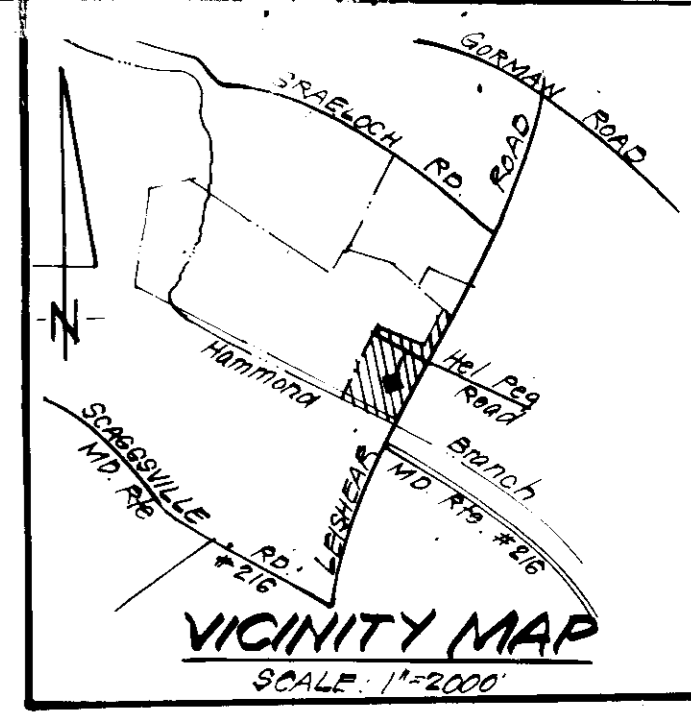
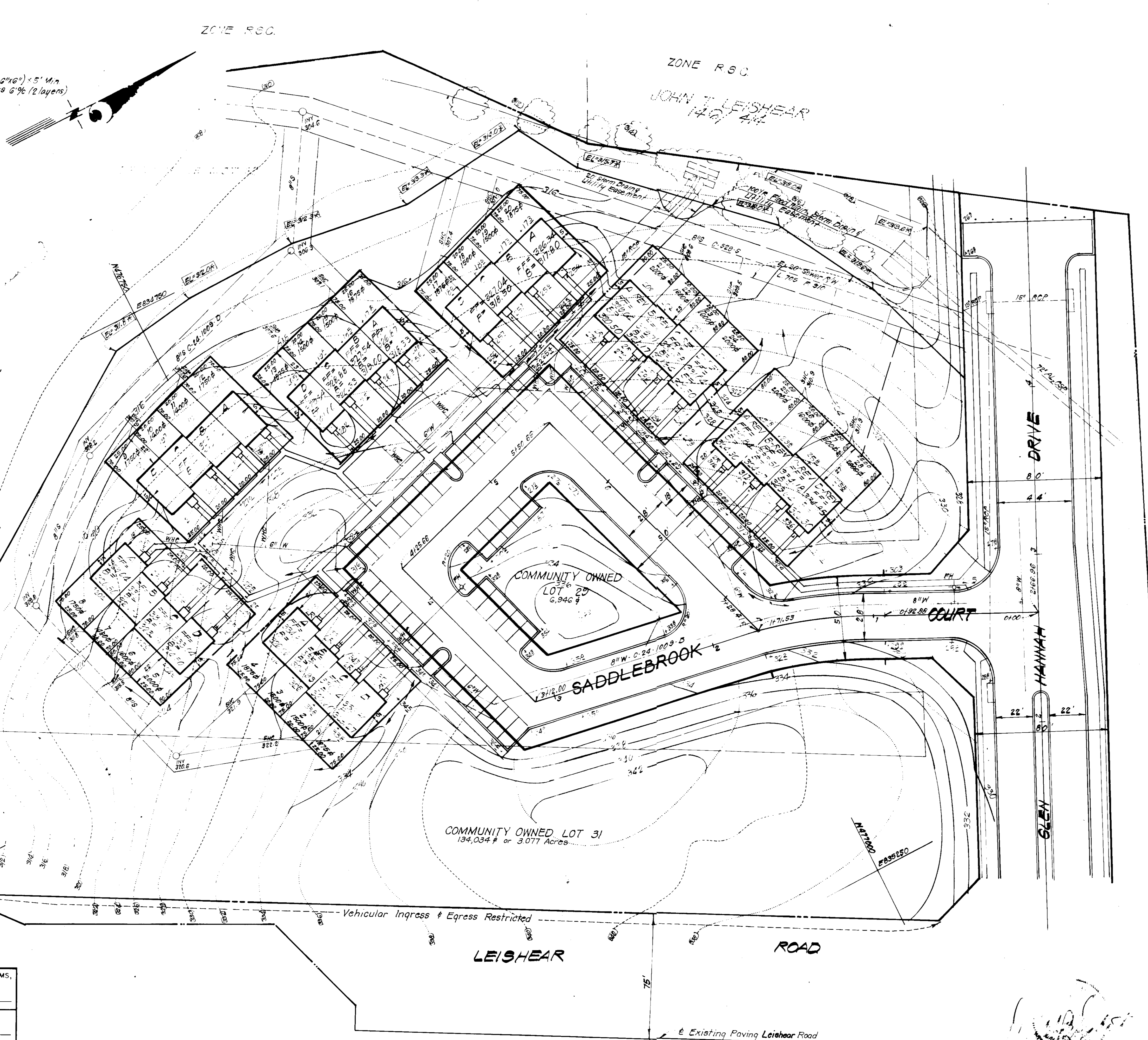


TIMBER RETAINING WALL
NO SCALE

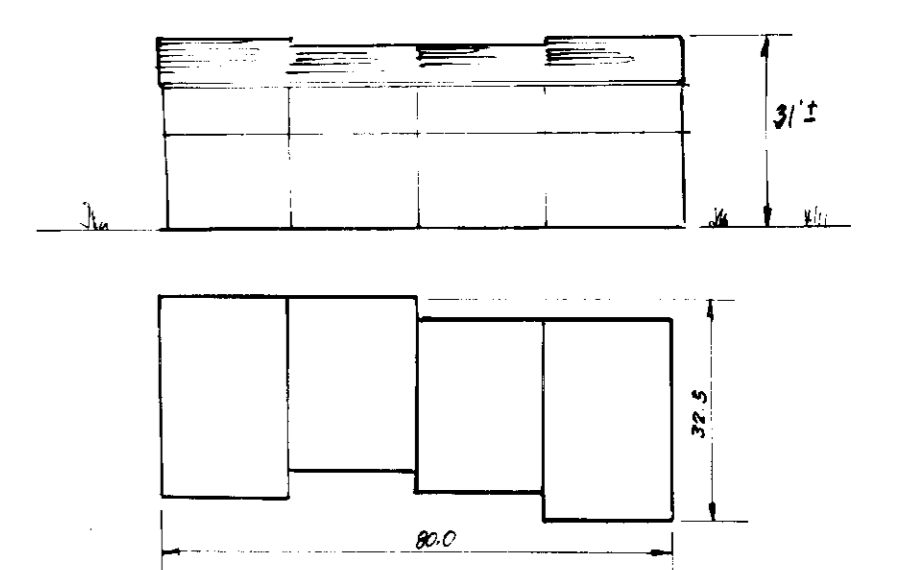


GENERAL NOTES:

1. The land included in this plan is zoned: R9C
2. All coordinates shown are based on Maryland State Grid System, Traverse Sta. 244,003 & 204,002.
3. The area covered is located on Tax Map # 46, Parcel # 3.
4. The total area included in this plan is 4.33 Acres.
5. All roadways are public and existing.
6. Any damage to county owned right of ways shall be corrected at the developer's expense.
7. No. of Units shown: 28
8. No. of Parking Spaces shown: 36
9. Total Number of Lots: 30
10. Building Coverage: Max. 560' or 32%
11. Open Space Coverage: 140,980' or 75%

LEGEND:

1. Contour Interval: 2 FT
2. Existing Contour:
3. Proposed Contour:
4. Spot Elevation:
5. Direction of Drainage:
6. Walk-Out Basement:
7. Retaining Wall:
8. 100 Yr Flood Plain Elevation:
9. Exist. Trees to be retained:



TYPICAL BUILDING ELEVATION
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-13-81
[Signature]

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 11-5-81
DATE

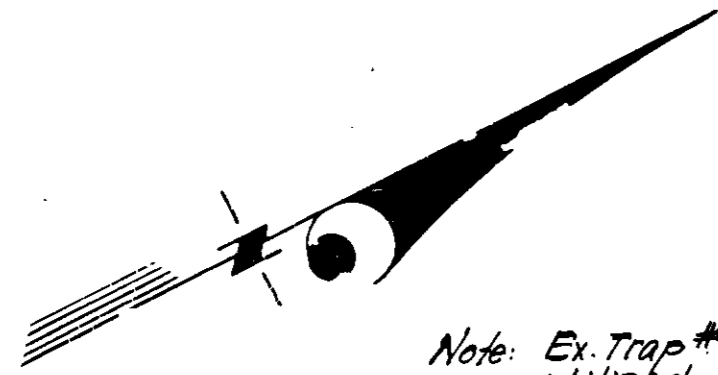
APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 11-9-81
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 11-3-81
DATE

APPROVED FOR
[Signature] 10/30/81
DATE

OWNER: BRANTLY DEVELOPMENT CORP.
Suite 105 5501 Twin Knolls Road
Columbia, Md. 21045

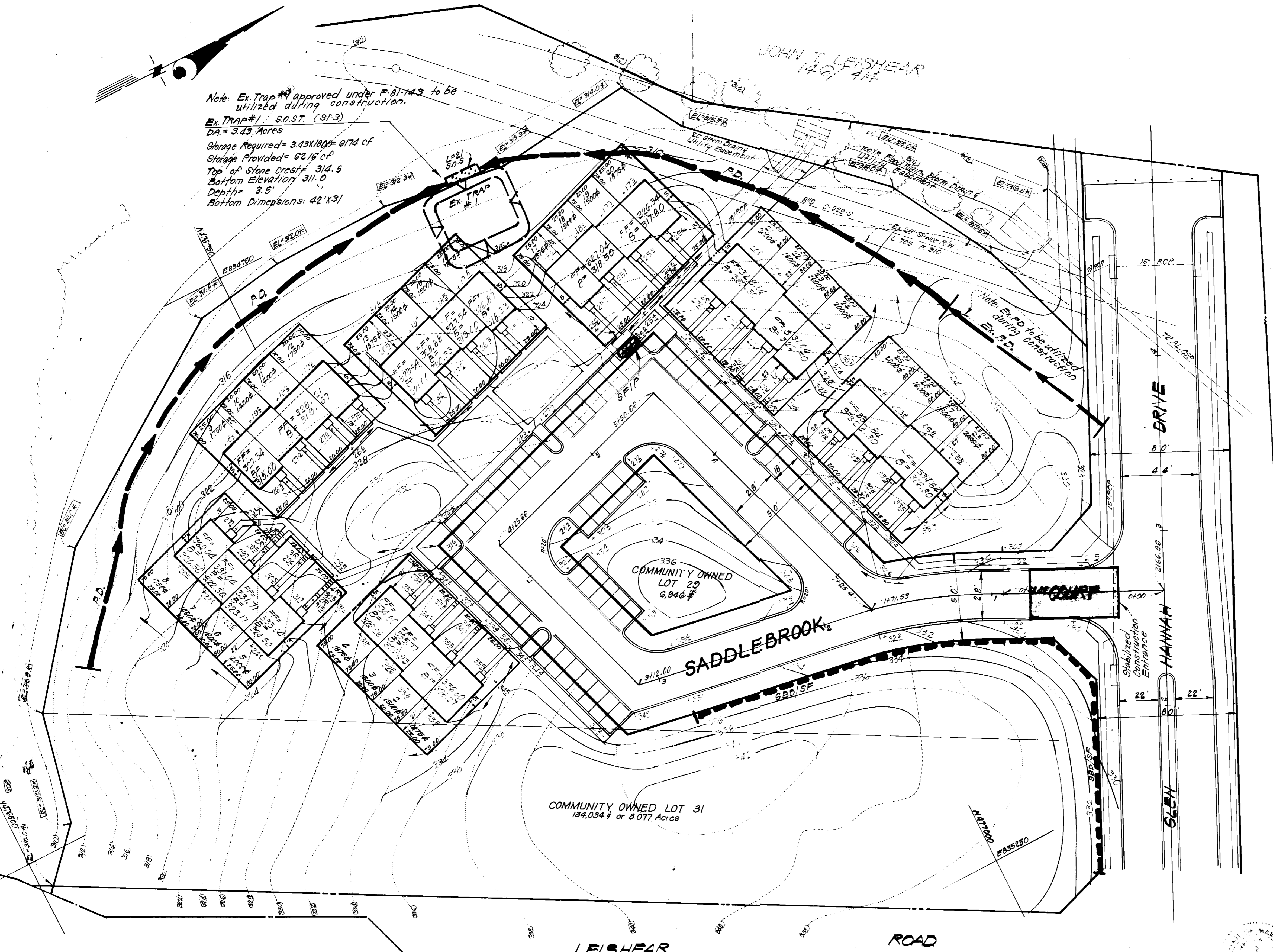
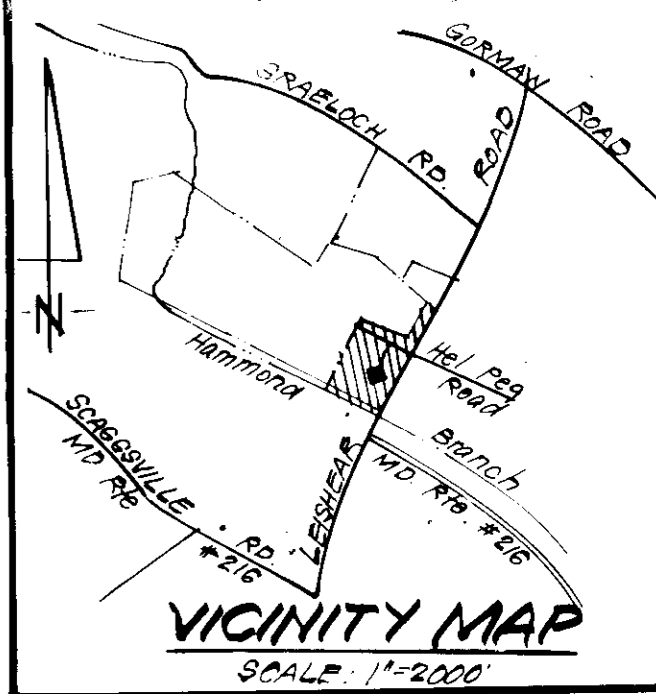
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LUX WOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-1400		
DESIGNED	JME	SITE DEVELOPMENT PLAN
DRAWN	K.I.W.	LOTS 1 THRU 29 & 31
CHECKED	JME	MURRAY HILL
DATE	8-26-81	SECTION TWO
		6TH ELECTION DISTRICT
		HOWARD COUNTY, MARYLAND
		FOR: RYAN HOMES, INC
		3811 Mallard Drive Suite 209
		LAUREL, Md 20811
SCALE	1"=30'	
DRAWING	10F-4	
JOB NO	81-008	
FILE NO	81-008-X	



Note: Ex Trap #1 approved under F-81-143 to be utilized during construction.

Ex Trap #1: S.O.S.T. (ST-3)
 DA = 3.43 Acres
 Storage Required = 3.43 x 1800 = 6174 of
 Storage Provided = 6216 of
 Top of Stone Crest = 314.5
 Bottom Elevation = 311.0
 Depth = 3.5'
 Bottom Dimensions: 42' x 31'

JOHN T. LEISHEAR
 1407 4th



LEGEND:

1. Contour Interval 2 FT
2. Existing Contour 3/0
3. Proposed Contour 4/0
4. Spot Elevation +105
5. Direction of Drainage
6. Walk-Out Basement
7. Retaining Wall
8. 100 Yr Flood Plain Elevation
9. Exist. Trees to be retained
10. Perimeter Dike
11. Stone Filter Inlet Protection SF/IP
12. Stabilized Construction Entrance
13. Ex Sediment Trap
14. Ex. Perimeter Dike
15. Straw Bale Dike or Silt Fence

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-13-81

OWNER:
 BRANTLY DEVELOPMENT CORP.
 Suite 105 5501 Twin Knolls Road
 Columbia, Md. 21045

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 11-5-81
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 11-9-81
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN DATE 11-6-81
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 11-2-81
 CHIEF BUREAU OF ENGINEERING DATE 10/30/81

reviewed for HOWARD S.C.D.
 and proposed comments
 Signature Date 10-27-81
 SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED
 Signature Date 10-27-81
 Approved

DEVELOPER'S/BUILDER'S CERTIFICATE
 "I hereby certify that all construction and construction will be done according to the approved plans and specifications for erosion and sediment control and that the project will be completed in accordance with the construction project will have a Certificate of Compliance for the project's Natural Resources Approved Training Program for the District of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
 Signature Date 9/7/81
 Signature of Developer/Builder
 Larry G. Lottner

ENGINEER'S CERTIFICATE
 I hereby certify that the plan for erosion and Sediment Control represents a practical and workable plan based on my personal professional design of the site conditions and the project is in accordance with the requirements of the Howard County Department of Public Works District.
 Signature Date 8-31-81
 Signature of Engineer
 G. Nelson Clark

PLAT REF: P.B. 4996 & 4997

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LUXWOOD DRIVE SILVER SPRING, MARYLAND 20904 301-593-1400

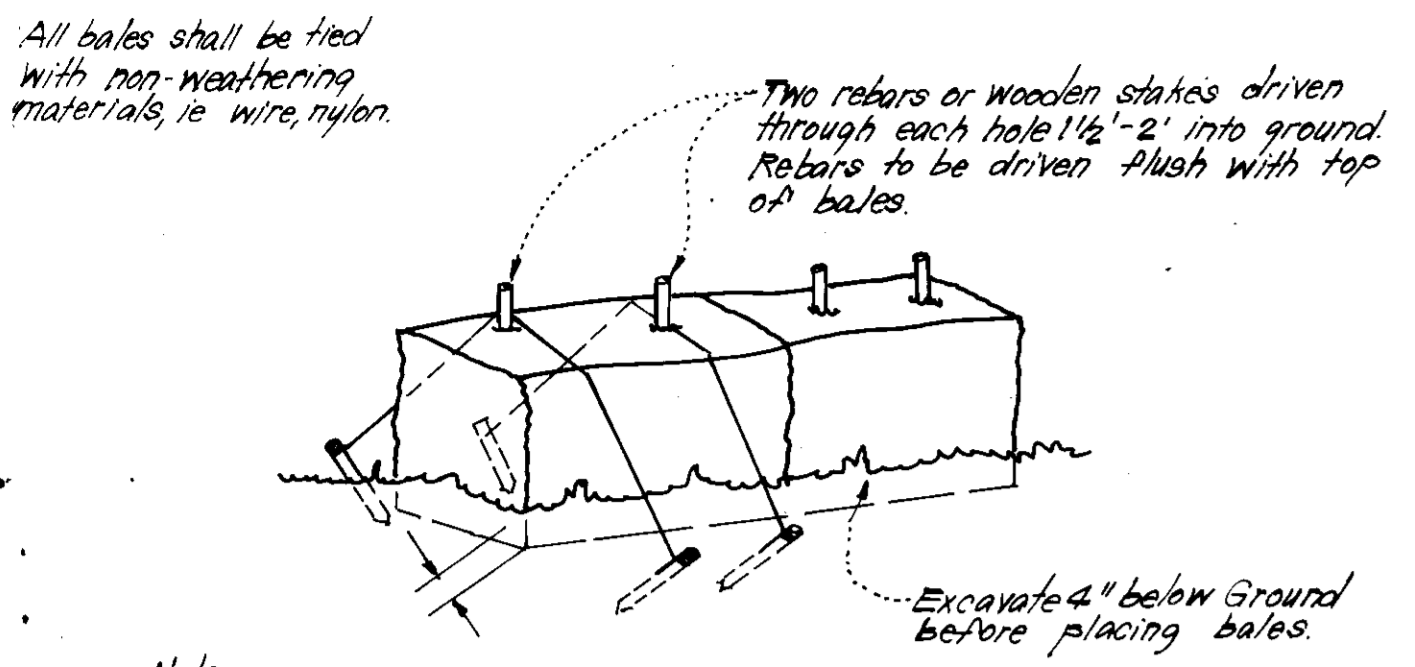
DESIGNED	BP	SCALE	1"=30'
DRAWN	R.I.W.	DRAWING	2 OF 4
CHECKED	R.J.S.	JOB NO.	81-008
DATE	9-1-81	FILE NO.	

SEDIMENT & EROSION CONTROL PLAN
 LOTS 1 THRU 29 & 31
MURRAY HILL
 SECTION TWO
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: RYAN HOMES INC
 3811 Mallard Drive Suite 208
 Laurel, Md 20681

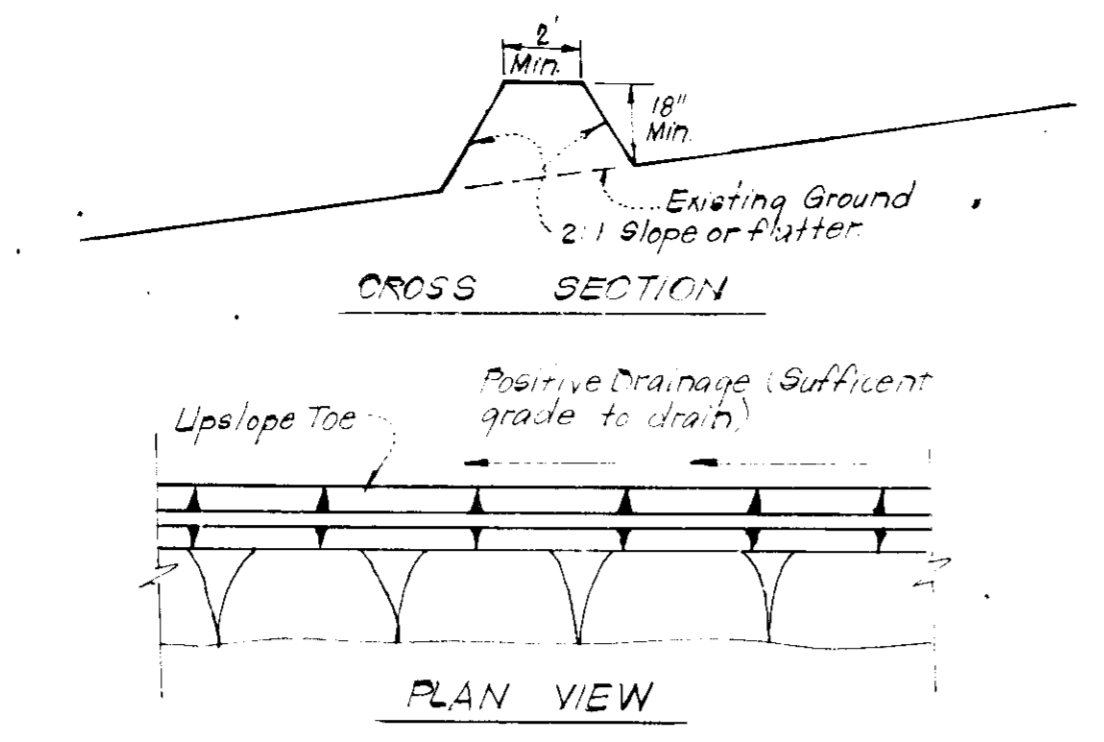
GENERAL NOTES

1. Erosion Permits shall be obtained prior to installation of Sediment Control & Stabilization.
2. All Sediment and Erosion Control Measures will be installed and stabilized in accordance to this plan prior to any other grading, clearing, or visitation of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be applied at a rate of 1.4 lbs/1000 sq ft.
3. Notify the Bureau of Inspections and Permits at least 24 hrs before starting work.
4. All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
5. Stabilization of Disturbed Grounds to be done as soon after construction as possible.
6. All disturbed area to be stabilized in accordance with the following Specifications:
 - A. Seed - Certified 85% germination applied at the rate of 3 lbs/1000 sq ft. Mixture 40% Kentucky Blue, 20% Orchard Grass, 20% Kentucky 31 and 20% annual ryegrass.
 - B. Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sq ft. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs/1000 sq ft.
 - C. Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sq ft. Mulch shall be secured to the ground by any approved method i.e. asphalt tacks, chemical binder, etc.
 - D. All seed used shall be Maryland State Certified.
7. All Structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
8. On-Site Inspection and Maintenance of all Sediment Control Measures including removal of Sediment Traps and dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
9. It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
10. The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
11. Total Amount of Straw Bales or Silt Fence shown = 300 LF
12. SITE ANALYSIS:

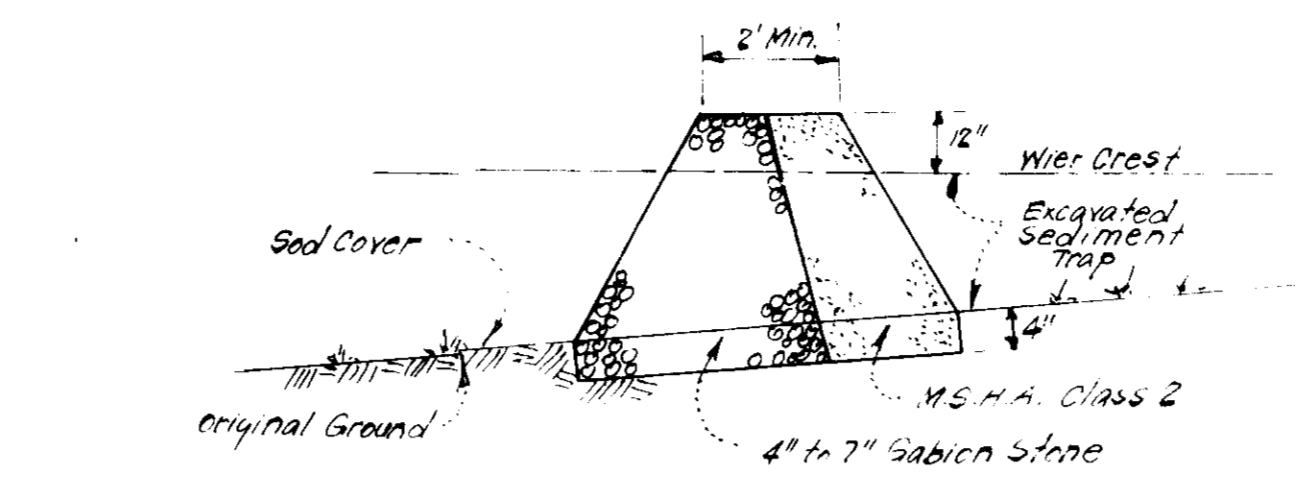
A. Total Area	4.33	Acres
B. Area to be Roofed	2.34	Acres
C. Area to be Paved	0.14	Acres
D. Area to be Seeded	2.95	Acres
E. Area Undisturbed	0.90	Acres
13. CONSTRUCTION SEQUENCE:
 - A. Install Sediment & Erosion Control Devices and Stabilize Diversion Dikes.
 - B. Excavate for Foundations and Rough Grade.
 - C. Erect Structures, Drive ways and Sidewalks.
 - D. Final Grade and Stabilize in accordance with note #6.
14. Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.



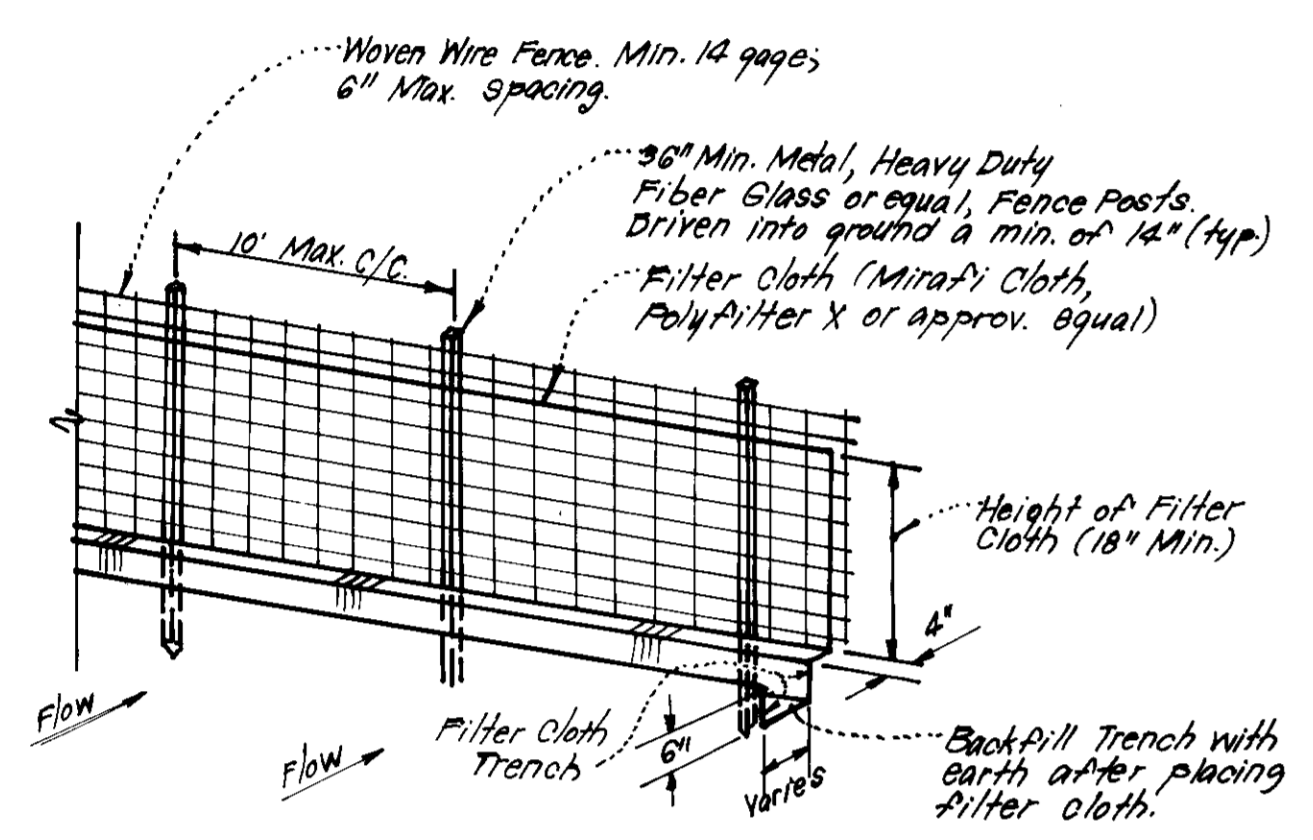
STRAW BALE DIKE DETAIL (S.B.D.)
No Scale



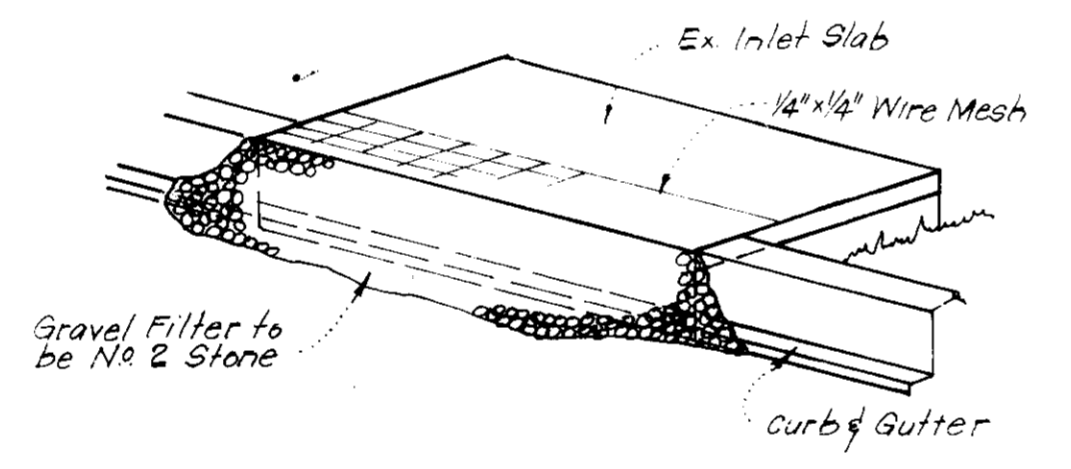
TYPICAL PERIMETER DIKE DETAIL (P.D.)
No Scale



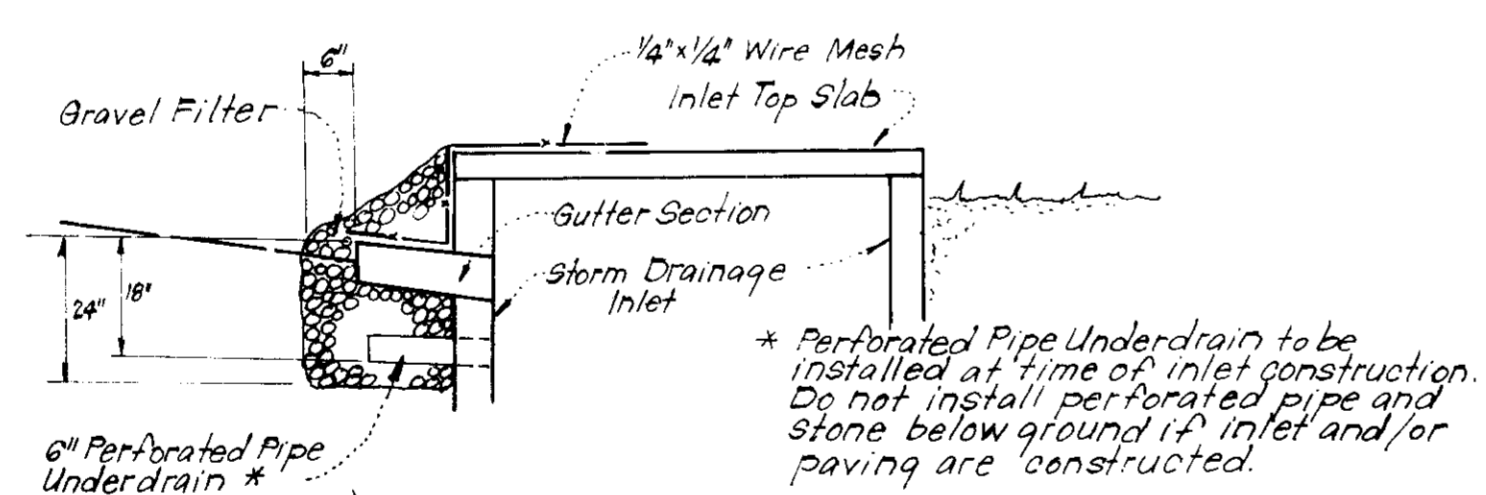
DETAILS OF STONE FILTER OUTLET (FOR STONE OUTLET SEDIMENT TRAP)
No Scale



SILT FENCE DETAIL (S.F.)
No Scale

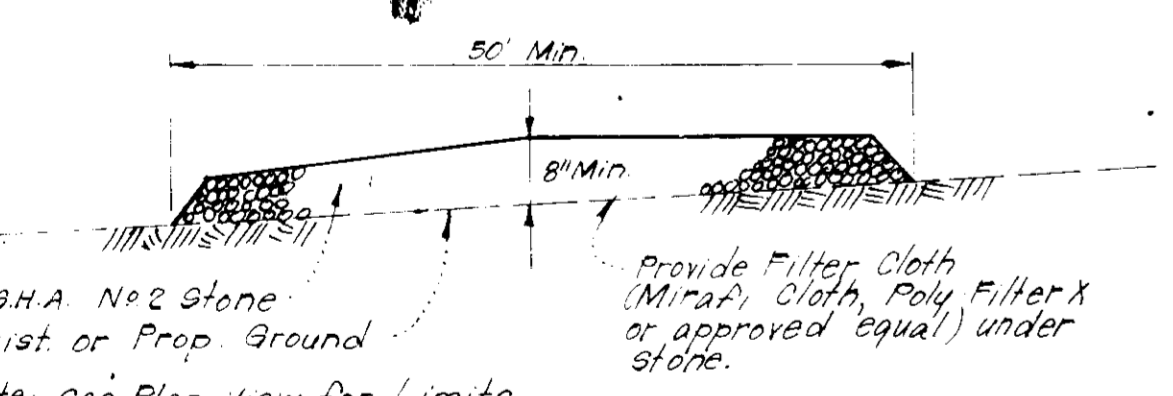


ISOMETRIC VIEW



SECTION VIEW

STONE FILTER INLET PROTECTION (S.F.I.P.)
No Scale



SECTION VIEW
STABILIZED CONSTRUCTION ENTRANCE
No Scale

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-13-81
JMM

OWNER:
BRANTLY DEVELOPMENT CORP.
Suite 105 5501 Twin Knolls Road
Columbia, Md. 21045

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
James P. ... 11-5-81
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
Thomas A. ... 11-9-81
John ... 11-6-81
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. ... 11-2-81
John ... 10-13-81
CHIEF BUREAU OF ENGINEERING

Reviewed: *Howard O. ...*
Signature: *Ray ...* 10-26-81
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
FOR HOWARD COUNTY AND SEDIMENT
CONTROL DISTRICT.
William ... 10-27-81
Approved

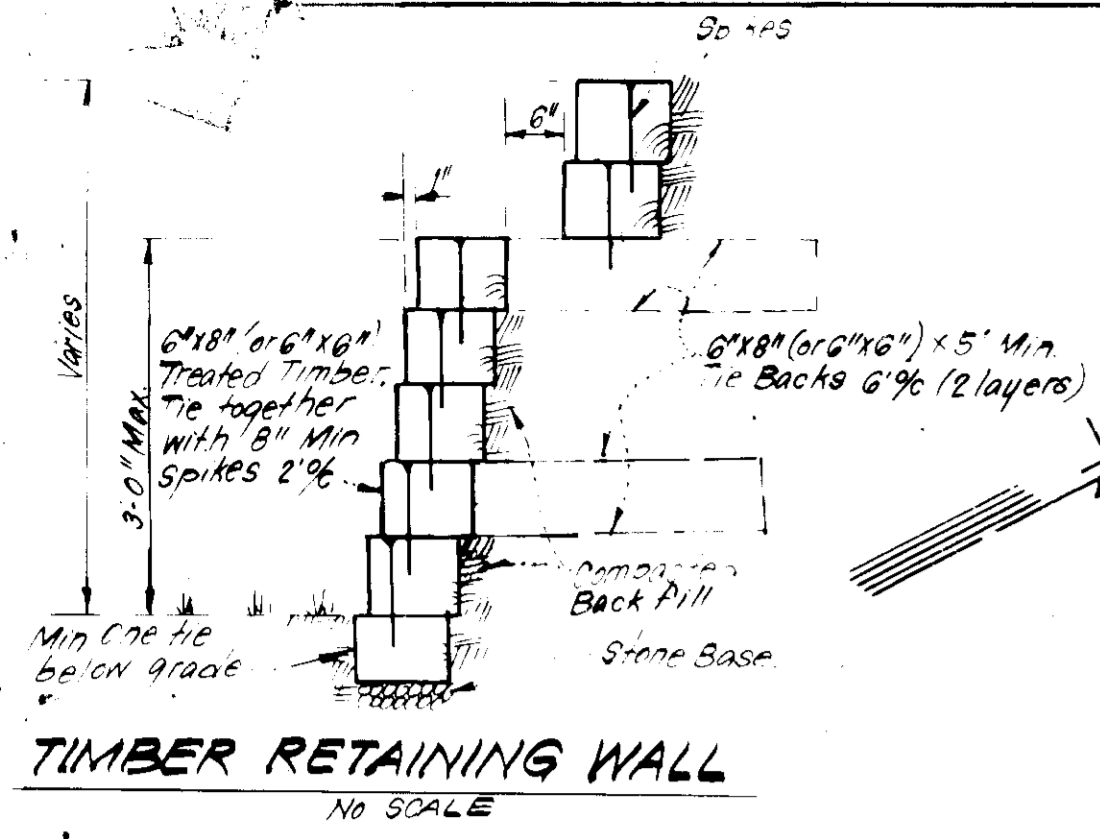
DEVELOPER'S/BUILDER'S CERTIFICATE
I hereby certify that all development and construction will be done according to this plan of development and that the erosion and sediment control and stabilization measures shown on this plan for the construction project will have a Certificate of Maintenance from the Natural Resources Approved Training Program for the District of Natural Resources before beginning the project. I will authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
John ... 9-7-81
Signature of Developer/Builder
Larry Lauffer

ENGINEER'S CERTIFICATE
I hereby 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.
G. Nelson Clark 8-31-81
Date

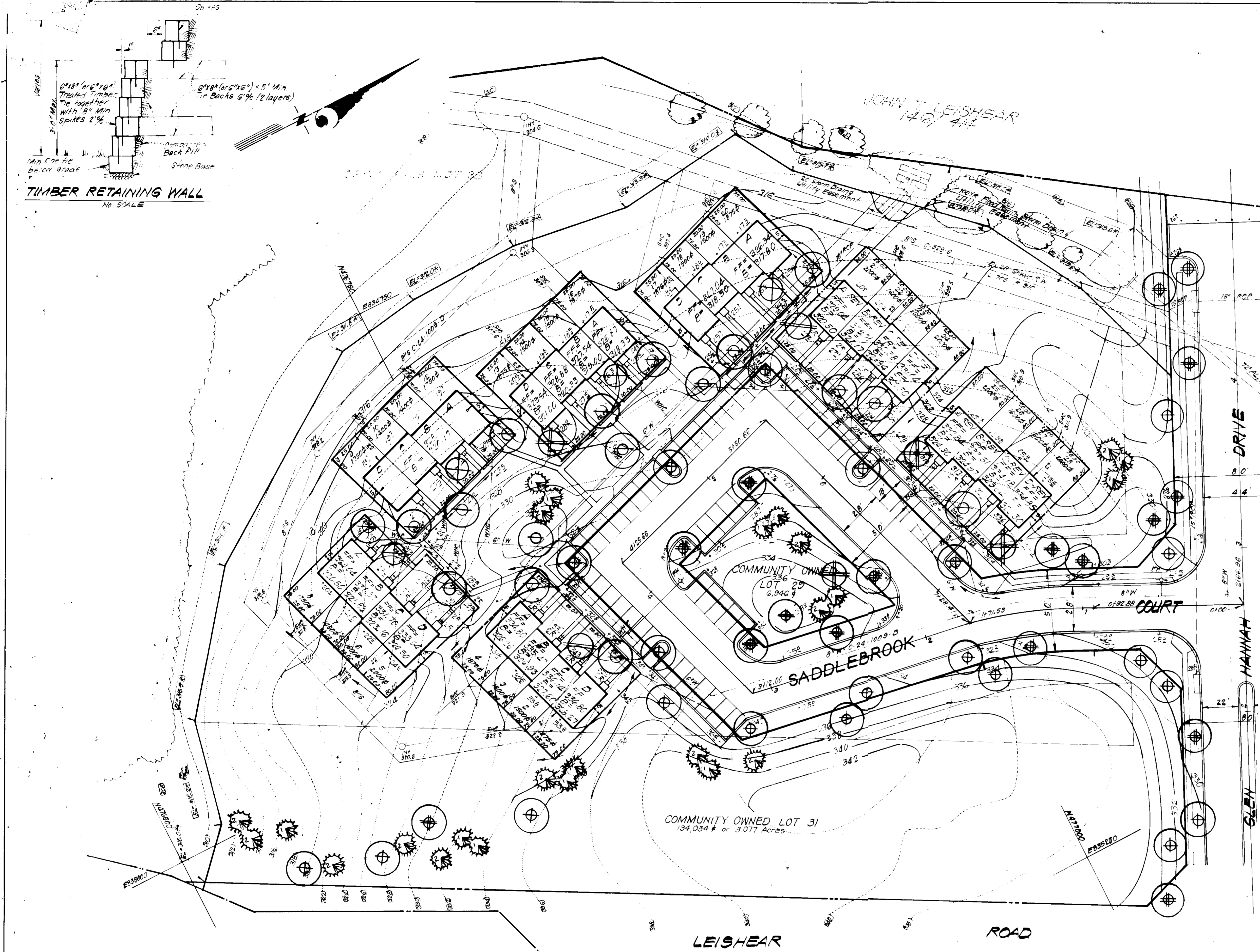
PLAT REF: PB. 4996 14007

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 563-3400	
DESIGNED B.R.	SCALE As Shown
DRAWN K.W.	DRAWING 3074
CHECKED R.V.S.	JOB NO. 81-008
DATE 9-1-81	FILE NO. 81-008 SE

FOR: RYAN HOMES, INC.
8811 Mallard Drive Suite 203
Lanear, Md. 20811



TIMBER RETAINING WALL
NO SCALE



PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANT	REMARKS
⊕	ACER RUBRUM 'OCTOBER GLORY'	2 1/2-3 1/2 GAL	23	B&B HEAVY HEADS
⊕	OCTOBER GLORY MAPLE	12-14' HT		
⊕	QUERCUS BOREAUIS	2 1/2-3 1/2 GAL	17	
⊕	RED OAK	12-14' HT		
⊕	QUERCUS PAUCISTRIS	2 1/2-3 1/2 GAL	15	
⊕	PIN OAK	12-14' HT		
⊕	CORNUS FLORIDA	2-2 1/2 GAL	4	
⊕	FLOWERING DOGWOOD	8-10' HT	4	
⊕	PRUNUS CERULEA 'KWANZAN'	2-2 1/2 GAL	4	B&B HEAVY HEADS
⊕	KWANZAN CHERRY	8-10' HT	4	
⊕	PRUNUS CERISEFERA 'THUNDERCLOUD'	2-2 1/2 GAL	2	
⊕	PURPLELEAF FLOWERING PLUM	8-10' HT	2	
⊕	PINUS STROBUS	0-10' HT	12	B&B HEAVY
⊕	EASTERN WHITE PINE	0-10' HT	12	
⊕	PINUS STROBUS	6-8' HT	13	
⊕	EASTERN WHITE PINE	6-8' HT	13	

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-13-81
J.M.

NOTE:
CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO DIGGING. CALL MARYLAND UTILITY.
SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT. (593-3400).

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
James P. Ryan
DATE 11-5-81
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
Thomas J. Davis
DATE 11-9-81
APPROVED DIVISION OF LAND DEVELOPMENT & ZONING
William M. ...
DATE 11-6-81
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William F. ...
DATE 11-2-81
McGowan & Co.
DATE 10/25/81

OWNER:
BRANTLY DEVELOPMENT CORP.
Suite 105 5501 Twin Knolls Road
Columbia, Md. 21045

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
1100 LUKWICH DRIVE
SILVER SPRING, MARYLAND 20904

DESIGNED BY: W.H.T.
DRAWN BY: J.B.C.
CHECKED BY: W.H.T.
DATE: 10-9-81

LANDSCAPE PLANTING PLAN
LOTS 1 THRU 83 & 31
SECTION TWO
MURRAY HILL
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: RYAN HOMES, INC.
9811 MALLARD DRIVE SUITE 209
LAUREL MARYLAND 20811

SCALE: 1" = 3' DRAWING 4 OF 4 JOB NO. 21708 FILE NO. 81-006-1