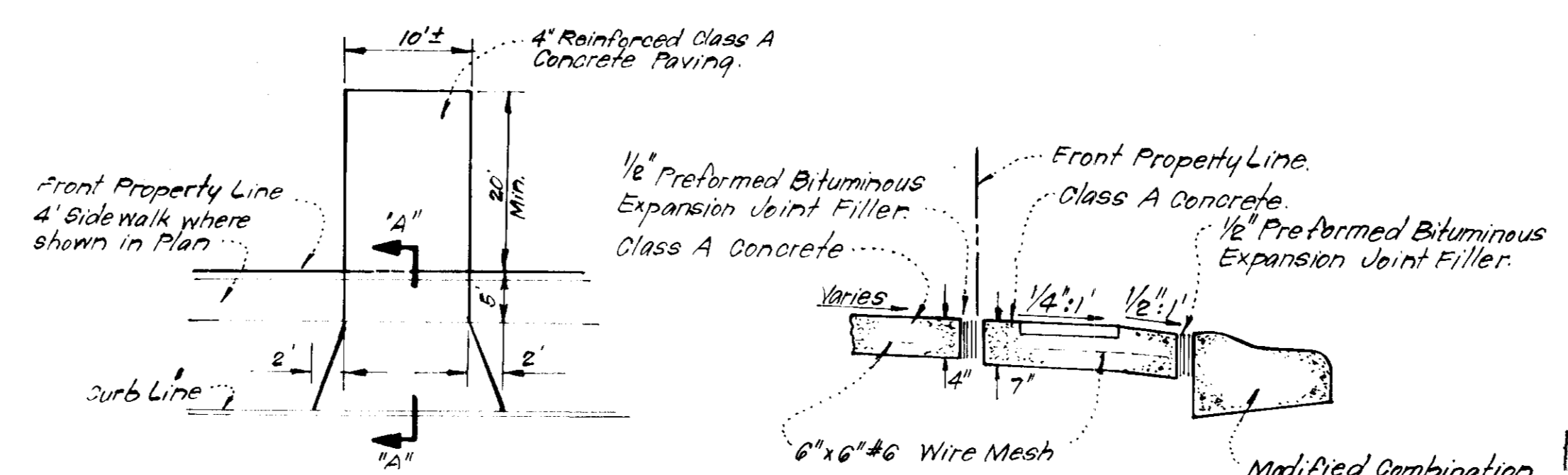


- GENERAL NOTES:**
- The Land included in this plan is zoned Newtown (S.F.M.D.)
 - The Lots shown on this plan are covered by Final Development Plan Phase 162 recorded in Plat 3054-A, Folios 120-140.
 - All coordinates are based on traverse controls for Columbia established by Maps, Inc. in 1965 by Purdom & Jeschke in 1968 which controls were tied to Maryland Bureau of Control Survey monuments and to U.S. Coast & Geodetic Survey monuments in the Columbia area.
 - The area covered in this submission is located on Tax Map #42.
 - The total area included in this plan is 1.663 Acres.
 - All roadways are public & existing.
 - Any damage to county owned rights of way or paving shall be corrected at the developer's expense.
 - Total number of Lots in this submission is 7.
- LEGEND:**
- 1 Contour Interval 2 Ft.
 - 2 Existing Contour - 8'00"
 - 3 Proposed Contour - 8'40"
 - 4 Spot Elevation +40'
 - 5 Direction of Drainage
 - 6 Exist Trees to be Retained



PLAN
DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER
No Scale

Note: Use Residential Driveway Entrance, Howard Co. Std. Dwg. D-34, pg. 80 except where driveway abuts Modified Comb. Curb & Gutter.

Note: Materials and Construction shall be in accordance with How. Co. Road Construction Code.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR

CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR

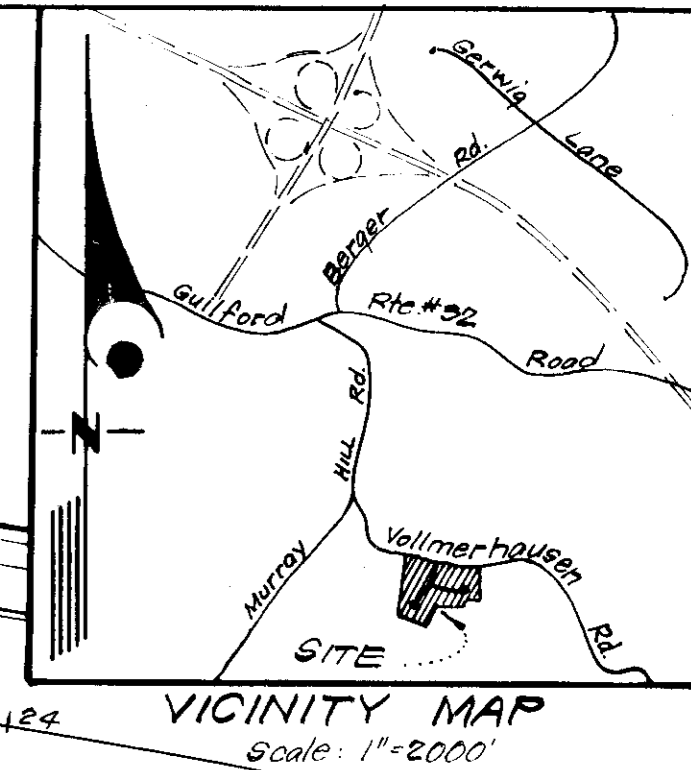
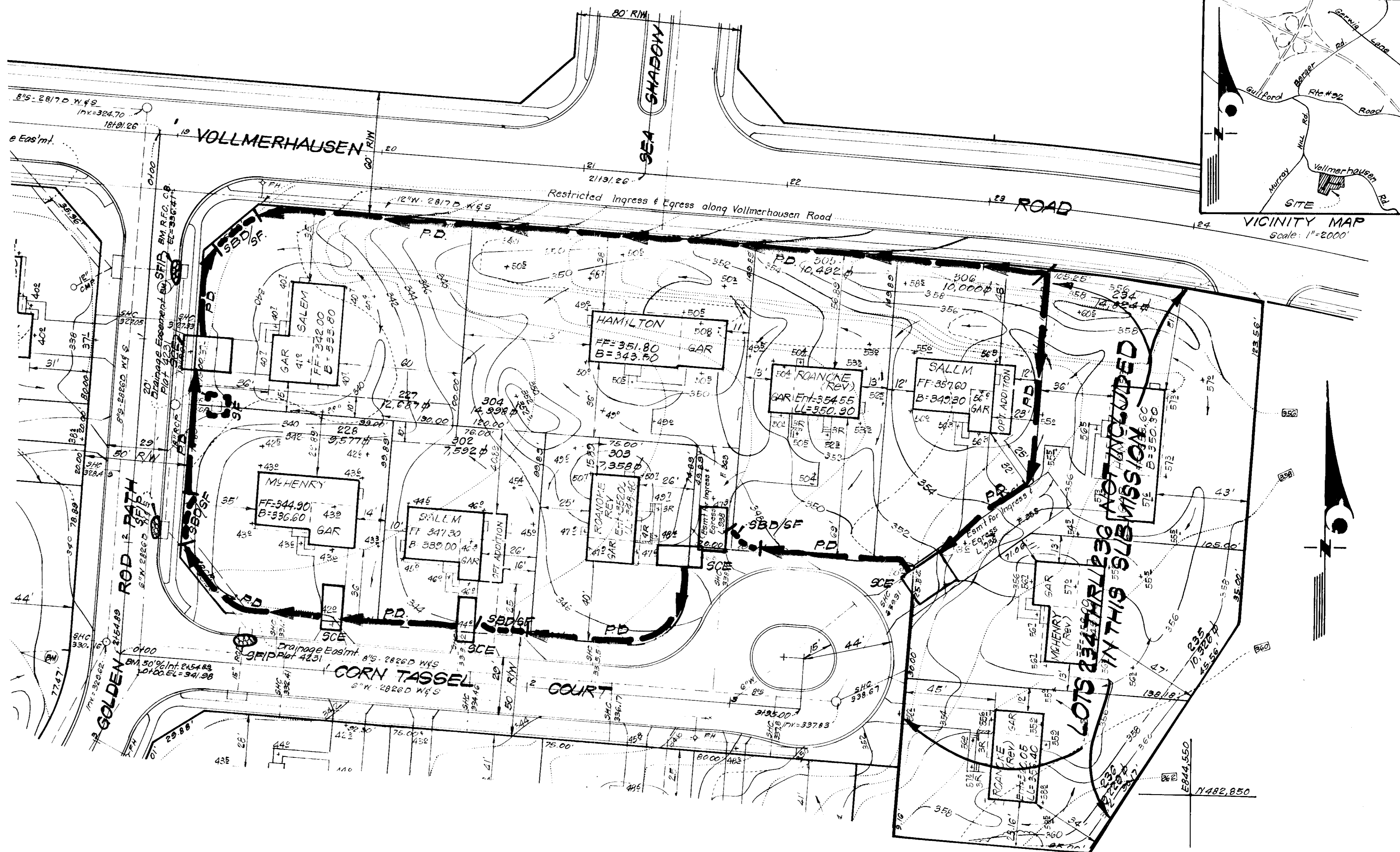
CHIEF BUREAU OF ENGINEERING



APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-20-79

CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LUCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED J.M.E.	SITE DEVELOPMENT PLAN LOTS 227, 228 & LOTS 302 THRU 306 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. Suite 200 V.O.M. Office Bldg. Columbia, Maryland 21043	SCALE 1"=30'
DRAWN J.M.E.		JOB NO. 78-1167-X
CHECKED J.M.E.	FILE NO. 78-1167-X	
DATE June, 1979		

SDP-79-173c



- 1. Perimeter Dike
- 2. Straw Bale Dike / Silt Fence
- 3. Stone Filter Inlet Protection
- 4. Stone Construction Entrance

- LEGEND:**
- 1. Contour Interval 2' F.T.
 - 2. Existing Contour
 - 3. Proposed Contour
 - 4. Spot Elevation +40.5'
 - 5. Direction of Drainage
 - 6. Exist. Trees to be Retained

Note: For Bearings & Distances of Individual Lots See Plats 4231 & 4231

CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED J.L.S.	SEDIMENT & EROSION CONTROL PLAN LOTS 227, 228 & LOTS 302 THRU 306 COLUMBIA VILLAGE OF KINGS CONTRANCE SECTION 3 AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. Suite 200 V.O.M. Office Bldg. Columbia, Maryland 21043	SCALE 1"=30'
DRAWN K.I.W.		DRAWING 2 of 3
CHECKED J.L.S.	DATE June 1979	JOB NO. 78-1167
		FILE NO. 78-1167-3

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-20-79
dwm

Reviewed for..... HowARD, S.C.D.
Name
and meets Technical Requirements
Winters
Signature
Date
U.S. Soil Conservation Service

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 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.

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.

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

Wm. T. Rowe
Approved
Date 8-2-79

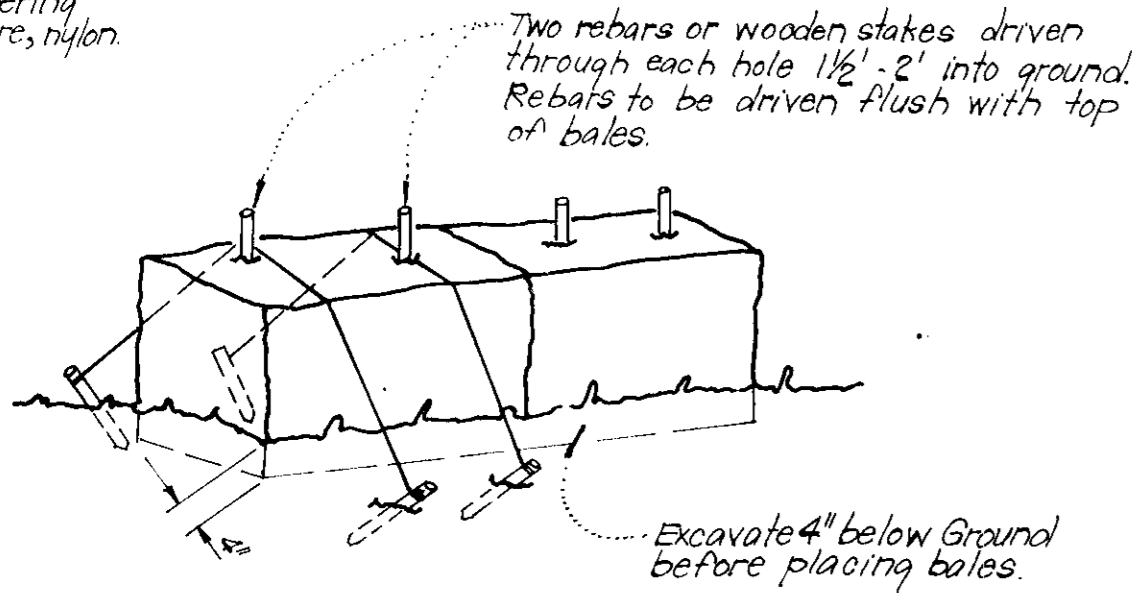
Lowrie B. Sargent
Signature
Date 6-21-79

G. Nelson Clark
G. Nelson Clark
Date 6-21-79

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	DATE 8-9-79
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING	DATE 8-2-79
PLANNING DIRECTOR	DATE
CHIEF DIVISION OF LAND DEVELOPMENT	DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE 8-8-79
DIRECTOR	DATE
CHIEF BUREAU OF ENGINEERING	DATE

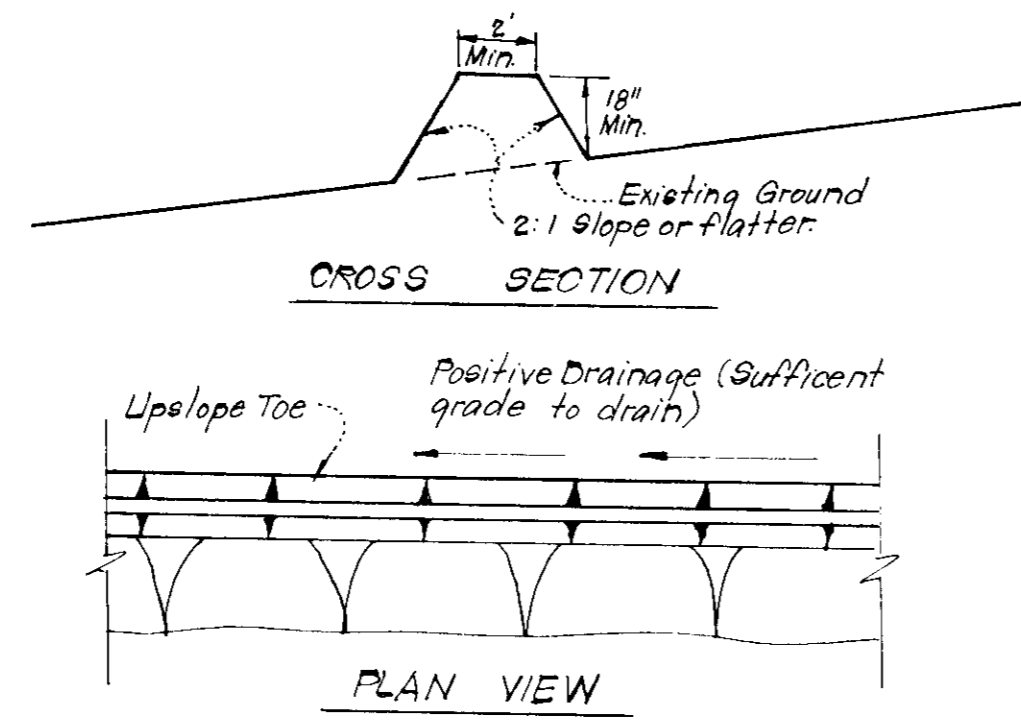


All bales shall be tied with non-weathering materials, i.e. wire, nylon.

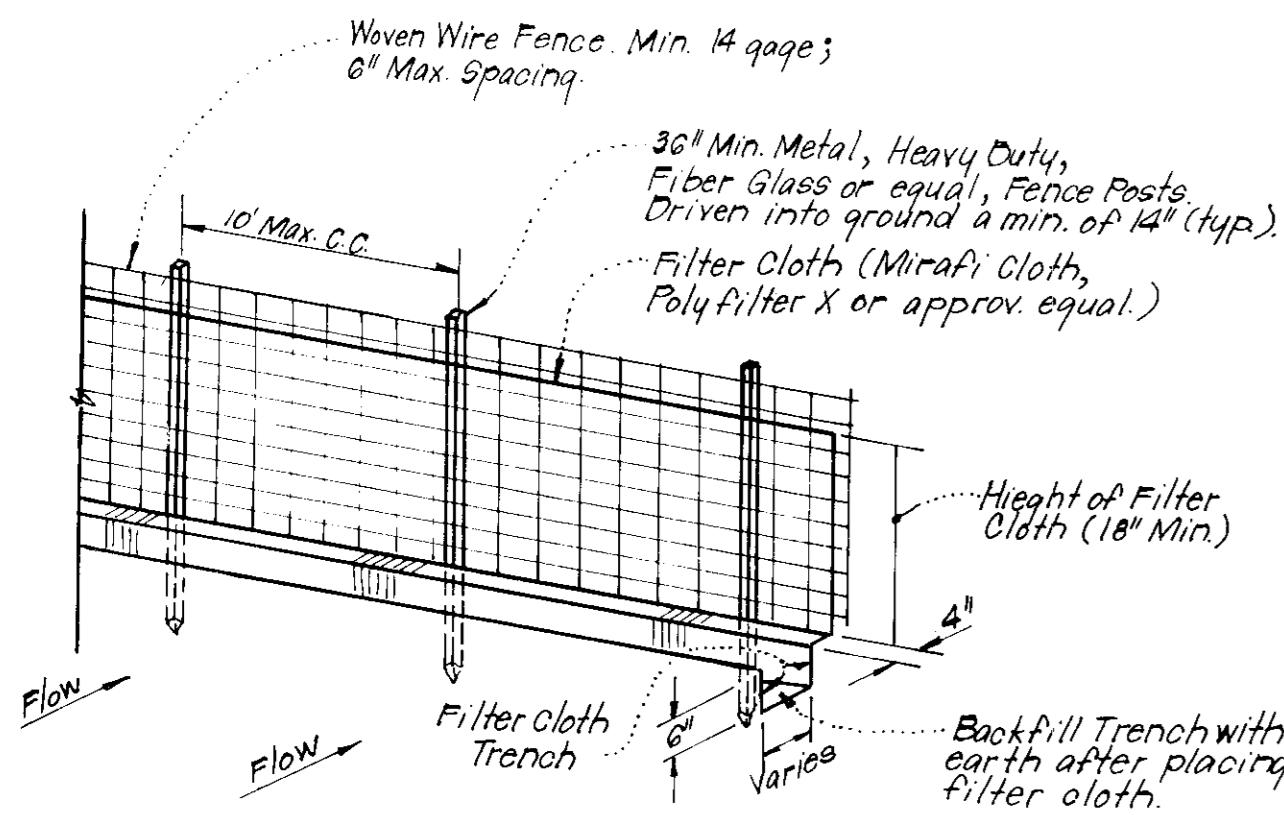


Note:
1. In lieu of the use of rebar each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)

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

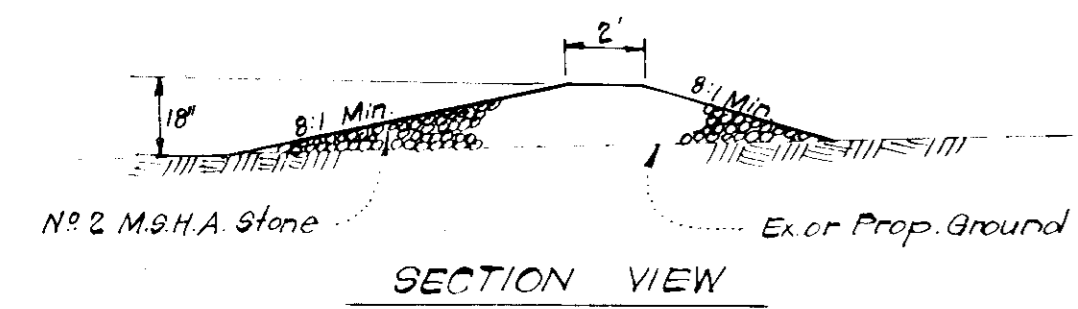


TYPICAL PERIMETER DIKE DETAIL (P.D.)
No Scale

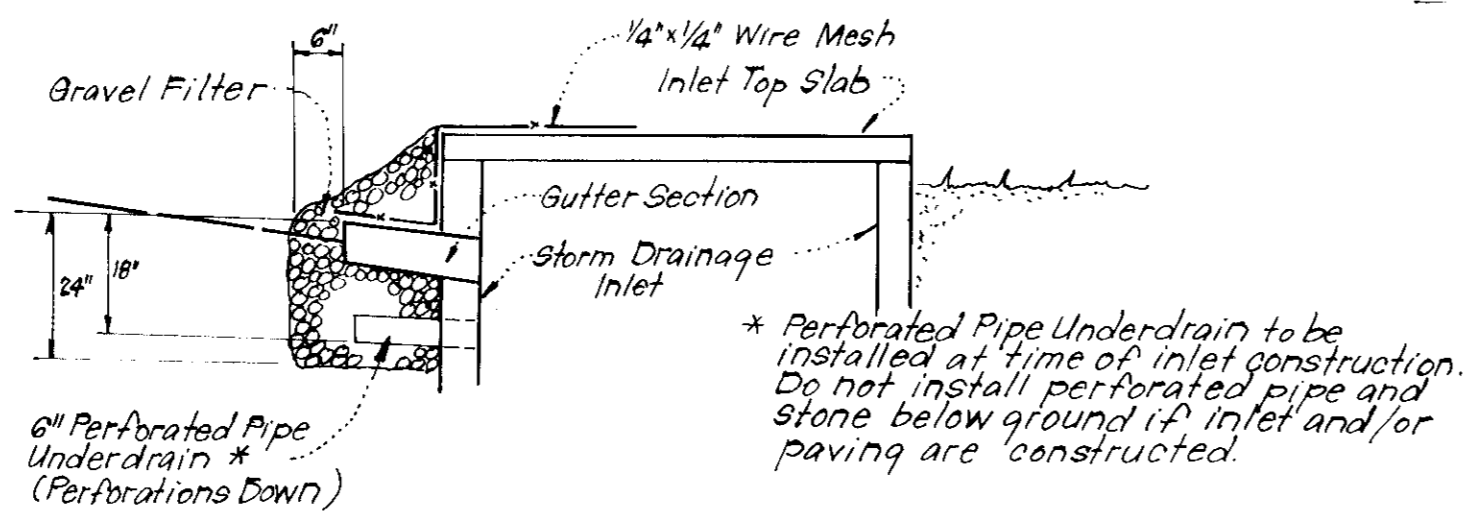
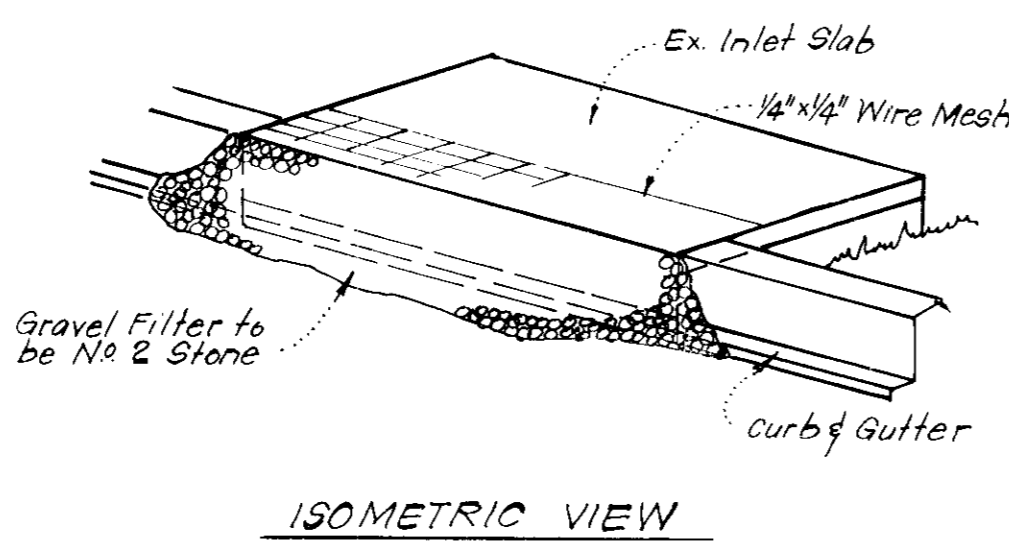


Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24\"/>

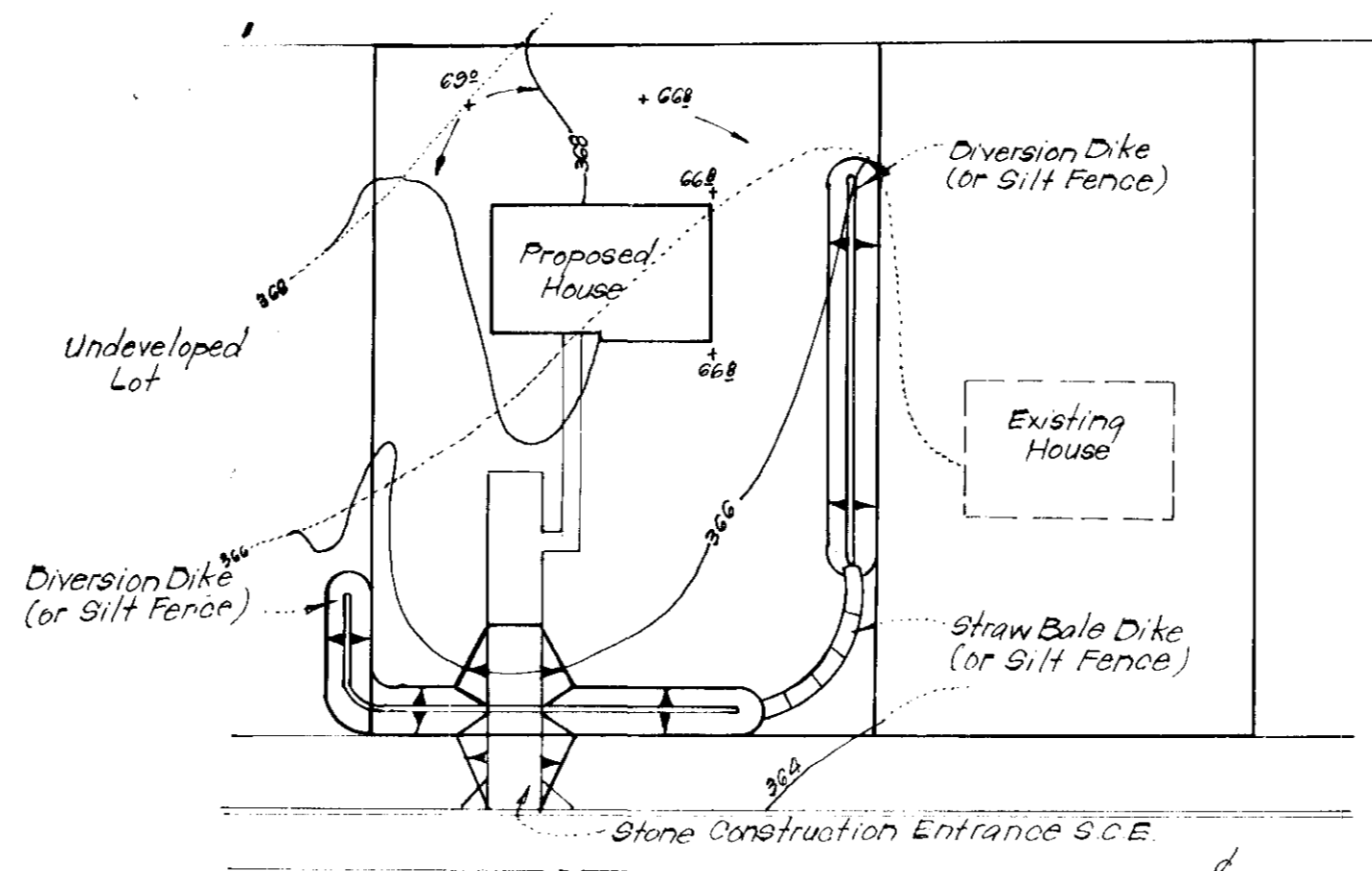
TYPICAL SILT FENCE DETAIL (S.F.)
No Scale



STONE CONSTRUCTION ENTRANCE DETAIL (S.C.E.)
No Scale



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



TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN
No Scale

GENERAL NOTES

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs/1000 sq ft.
- Notify the Bureau of Inspections and Permits at least 24 hrs before starting any work.
- 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.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All grading shall be treated in accordance with the following Specifications:
A. Seed - certified 85% germination applied at the rate of 5 lbs/1000 sq ft. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
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 46 lbs/1000 sq ft.
C. Mulch - Weed free grain straw applied at a rate of 46 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.
- 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.
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out 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.
- It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Stabilized Construction Entrances shall be placed at all construction entrances.
- If houses are to be constructed on an "As-Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.
- Total Amount of Straw Bales or Silt Fence shown = 120 LF
- SITE ANALYSIS:
A. Total Area: 1.669 Acres
B. Area to be Roofed: 0.209 Acres
C. Area to be Paved: 0.139 Acres
D. Area to be Seeded: 1.327 Acres
E. Area Undisturbed: 0 Acres
- CONSTRUCTION SEQUENCE:
A. Install Sediment & Erosion Control Devices and Stabilize Diversion Dikes.
B. Excavate for Foundations and Rough Grade.
C. Erect Structures, Driveways and Sidewalks.
D. Final Grade and Stabilize in accordance with note #6.
- 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.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-20-79
AJM

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 8-9-79
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: [Signature] DATE: [Blank]
CHIEF DIVISION OF LAND DEVELOPMENT
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 8-8-79
CHIEF BUREAU OF ENGINEERING
[Signature] DATE: [Blank]

Reviewed for Howard S.C.D.
Notice
and meets Technical Requirements
Wm. T. Rouse 8-2-79
Signature Date
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENTATION
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.

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.

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 Conserva-
tion District.



CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11135 LEE WOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED J.L.S.	SEDIMENT & EROSION CONTROL PLAN LOTS 227, 228 & LOTS 302 THRU 306 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. Suite 200 Y.O.M. OFFICE Bldg. Columbia, Md., 21043	SCALE As Shown DRAWING 30F3 JOB NO. 78-1167 FILE NO. 78-1167-5E
DRAWN K.I.M.		
CHECKED J.L.S.		
DATE June 1979		

Wm. T. Rouse 8-2-79
Signature Date

2BS [Signature] 6-21-79
Signature Date
Lorrie B. Sargent

G. Nelson Clark 6-21-79
Signature Date