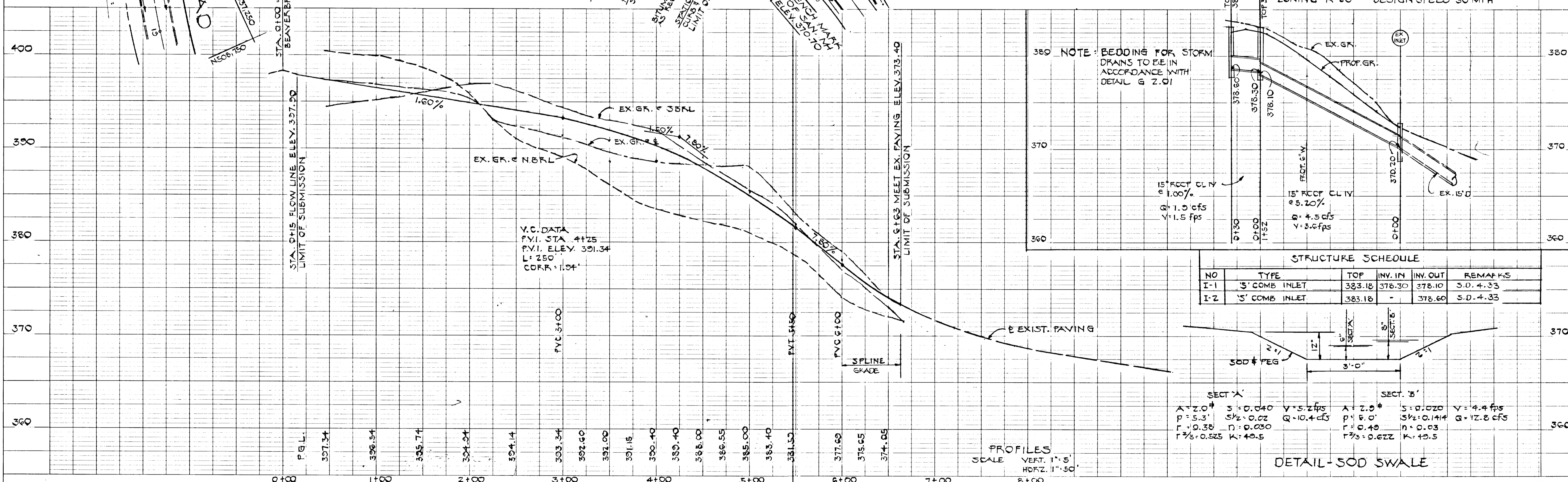
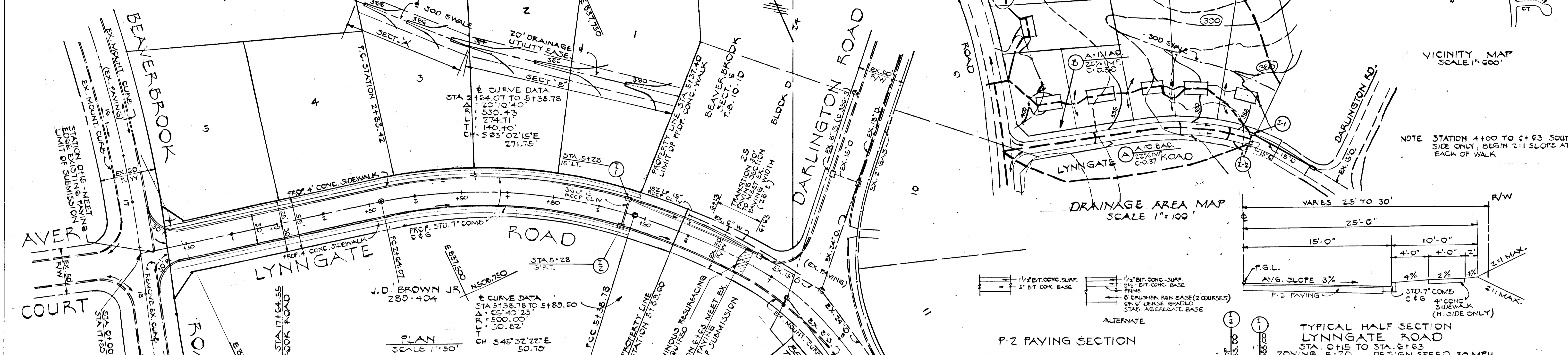


GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD CO. STANDARDS, SPECIFICATIONS & DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS IN ADVANCE OF CONSTRUCTION.
3. STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED & COMPACTED IN ACCORDANCE WITH HOWARD CO. STANDARDS, SPECIFICATIONS & DETAILS FOR CONSTRUCTION.
4. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE DONE AT THE DEVELOPER'S EXPENSE.
5. APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXIST. UTILITIES & TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER, AT LEAST 2 WEEKS IN ADVANCE OF ANY CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY HOWARD CO. DEPT. OF INSPECTION & PERMITS AT LEAST 3 DAYS BEFORE STARTING WORK. 302-2436



APPROVED: DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

HOOKS ASSOCIATES, INC.
101 SHELL BUILDING
200 EAST JOFFA ROAD
TOWSON, MARYLAND 21284
828-3090

DES: DWB
DRN: DWB
CHK: AL
DATE: BY NO REVISION DATE

600' SCALE MAP NO. BLOCK NO.

LYNNGATE ROAD
BEAVERBROOK
SECTION II AREA 2
ELECTION DISTRICT 5
HOWARD COUNTY, MARYLAND

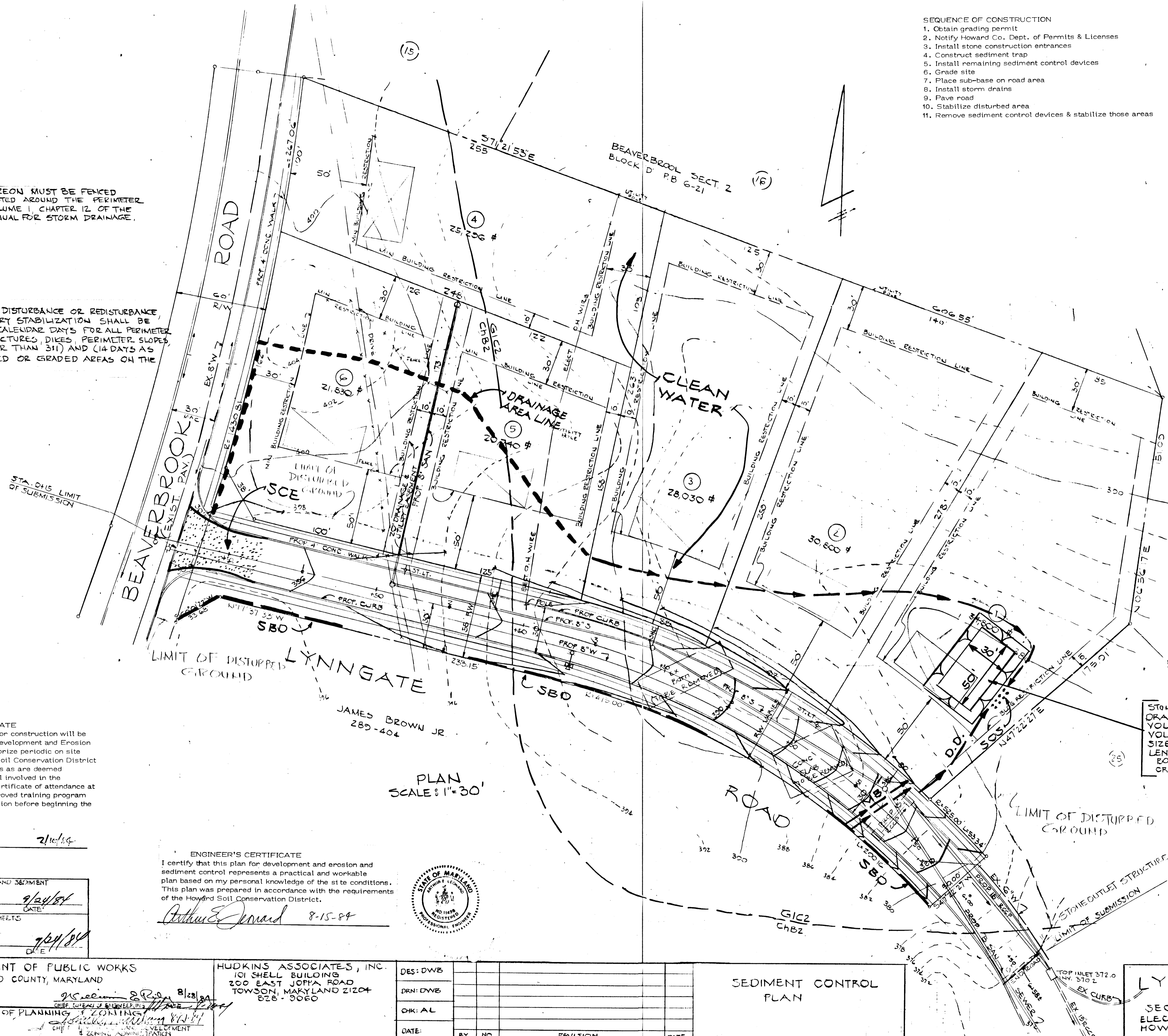
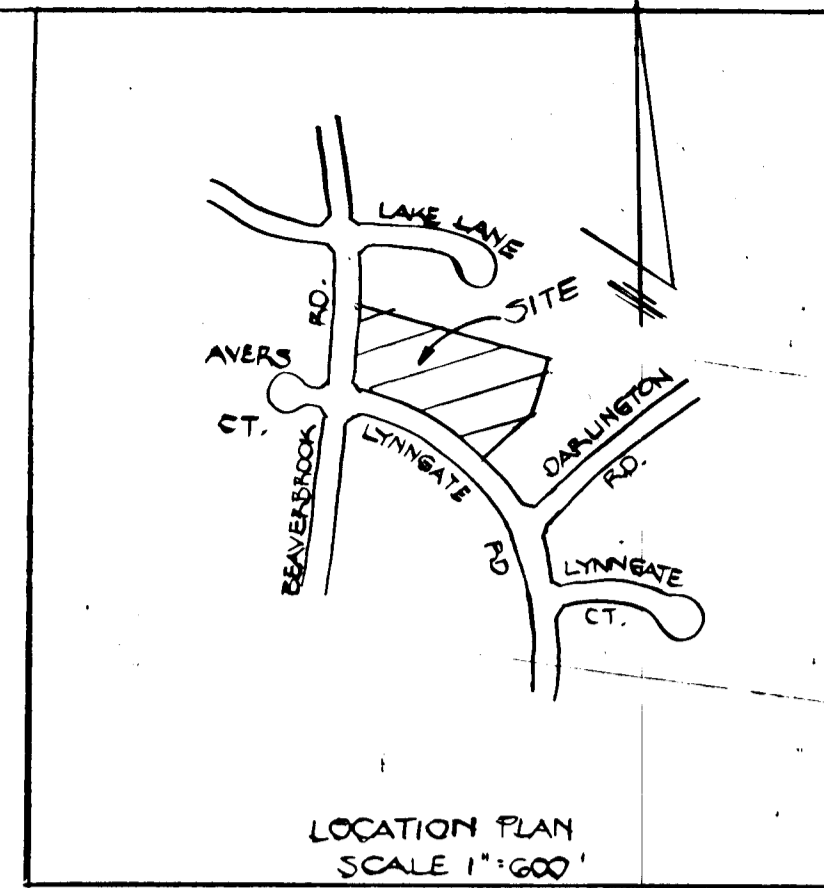
SCALE AS SHOWN
SHEET 1 OF 3

#110

NOTE:
ALL TRAPS SHOWN HEREON MUST BE FENCED AND WARNING SIGN POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOLUME 1, CHAPTER 12 OF THE HOWARD CO. DESIGN MANUAL FOR STORM DRAINAGE.

NOTE:
FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1) AND (14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE).

- SEQUENCE OF CONSTRUCTION
1. Obtain grading permit
 2. Notify Howard Co. Dept. of Permits & Licenses
 3. Install stone construction entrances
 4. Construct sediment trap
 5. Install remaining sediment control devices
 6. Grade site
 7. Place sub-base on road area
 8. Install storm drains
 9. Pave road
 10. Stabilize disturbed area
 11. Remove sediment control devices & stabilize those areas



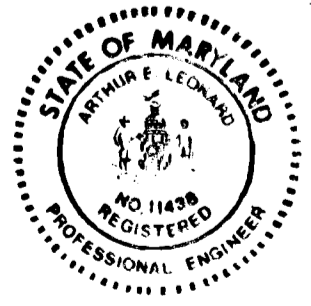
STONE OUTLET SEDIMENT TRAP
DRAIN AREA 21.0 AC.
VOL. REQ. 1.9 x 67 = 120 CY
VOL. PROV. 133 CY
SIZE 30' x 50' x 2.4'
LENGTH S.O.S. = 8'
BOTT. TRAP 376.6
CREST 370.0

SOIL ANALYSIS
ALL AREA OF SITE IS CLASSIFIED AS DISTURBED AREA TO BE RESTORED TO ORIGINAL CONDITION. AREA TO BE RESTORED IS 2.8 AC ± AREA TO BE MAINTAINED UNDERWOOD IS 2.8 AC ±

DEVELOPER'S CERTIFICATE
I certify that all development and/or construction will be done according to these plans of Development and Erosion and Sediment Control. I also authorize periodic on site inspection by the Howard County Soil Conservation District or their authorized representatives as are deemed necessary. Responsible personnel involved in the construction project will have a certificate of attendance at a Dept. of Natural Resources approved training program for the control of Sediment & Erosion before beginning the project.

William A. Cooke 2/16/84
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD S.C.D.
Stephen R. Fisher 9/24/84
HOWARD S.C.D. DATE
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
James M. Helms 7/24/84
S.C.D. DATE

ENGINEER'S CERTIFICATE
I certify that this plan for development and erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.
Arthur E. Demard 8-15-84
PROFESSIONAL ENGINEER



PLAN
SCALE: 1"=30'

APPROVED: DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

HUDKINS ASSOCIATES, INC.
101 SHELL BUILDING
200 EAST JOPPA ROAD
TOWSON, MARYLAND 21284
878-5060

DES: DWB					
DRN: DWB					
CHK: AL					
DATE:	BY	NO.	REVISION	DATE	

SEDIMENT CONTROL PLAN

LYNNGATE ROAD
BEAVERBROOK
SECTION II AREA 2
ELECTION DISTRICT 5
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 5

SEDIMENT CONTROL SEEDING NOTES:

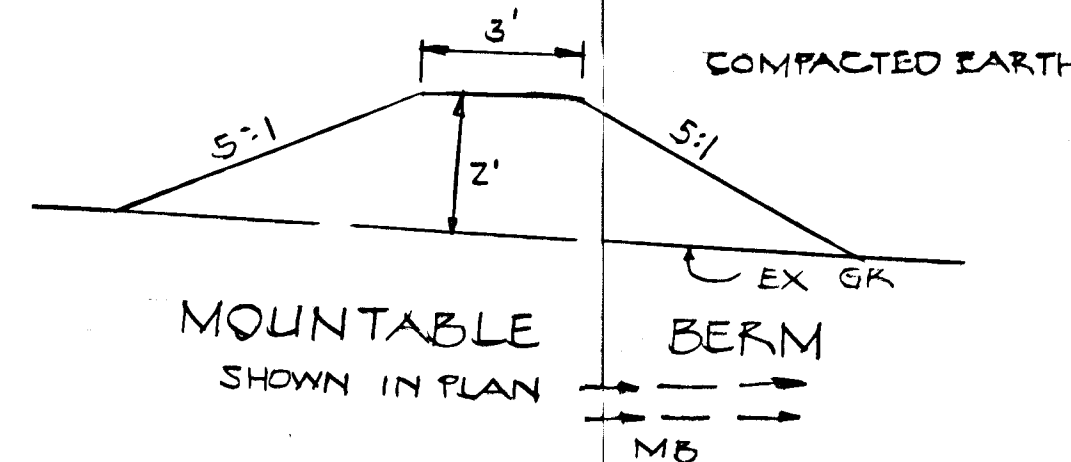
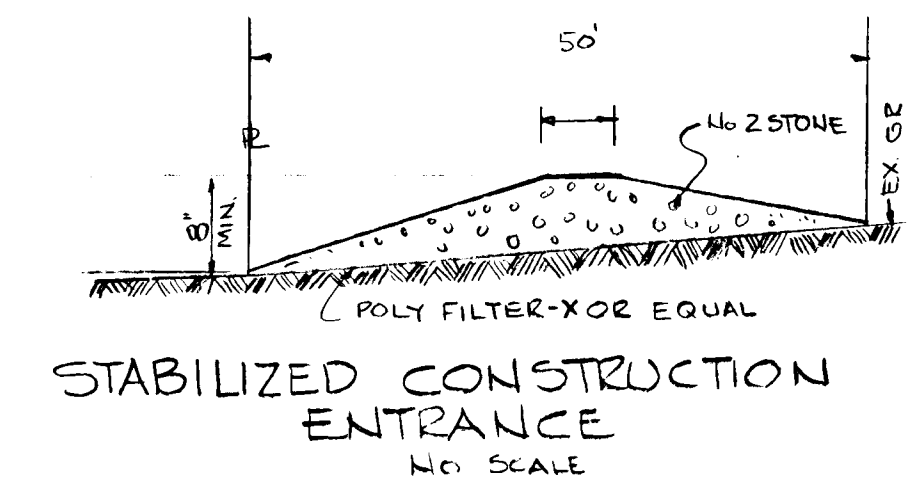
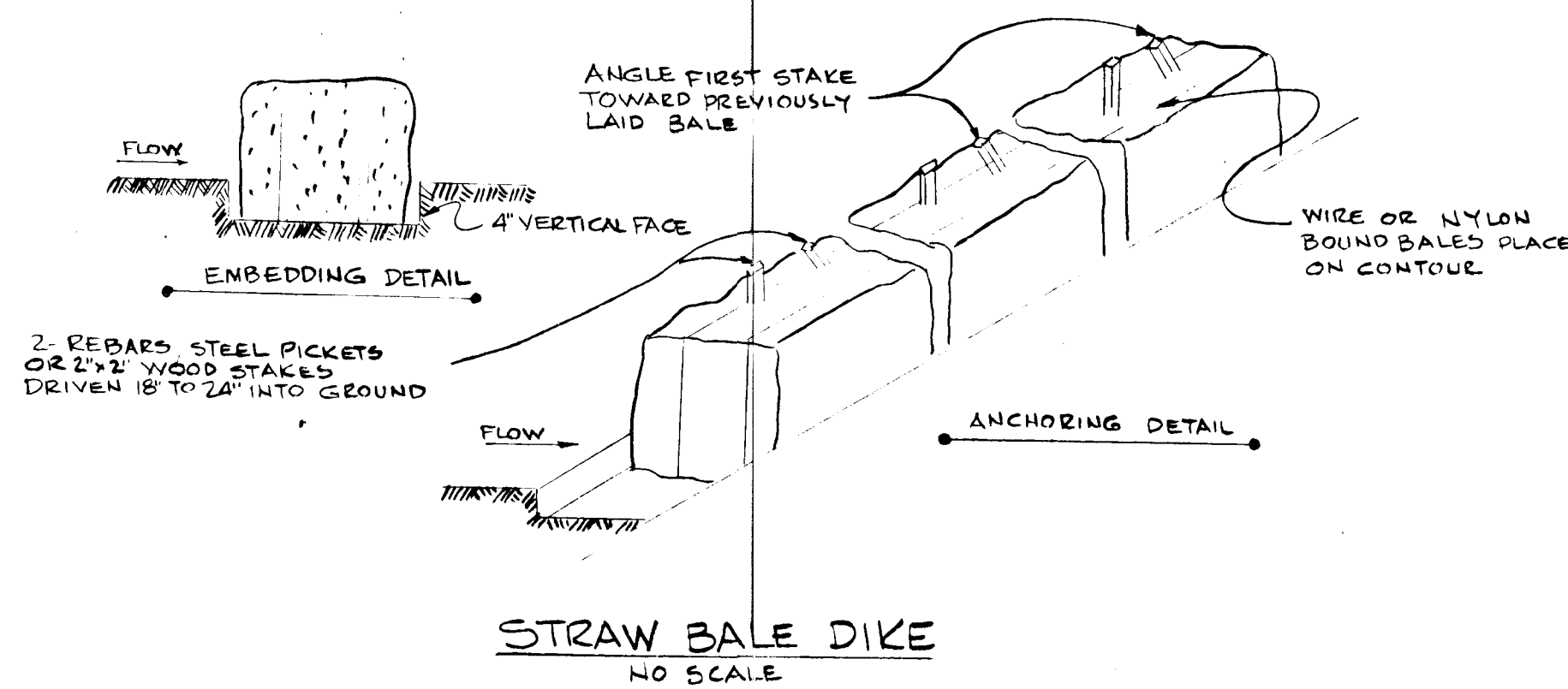
1. Notify Howard County Bureau of Inspections 48 hrs. before starting work.
2. Install Sediment control measures in accordance with "Standards & Specifications for Soil Erosion & Sediment Control in developing areas" prior to any grading.
3. All Sediment control measures to remain in place until permission for their removal has been obtained from the Sediment Control Inspector.
4. Inspect & maintain all Sediment control measures to ensure proper functioning.
5. All graded areas not to be paved are to be stabilized as follows:
 - a. Spread 3" layer compacted topsoil to finished grade.
 - b. Spread 90 lbs./1000 s.f. Dolomitic limestone & 25 lbs./1000 s.f. 10x10x10 fertilizer.
 - c. Seed with 3 lbs./1000 s.f. of the following 40% Kentucky Blue, 20% Chewling Fescue, 20% Kentucky 31, & 20% Annual Rye. Rake with York Rake (Min. 2 passes), cover & compact with cultipacker or other approved method.
 - d. Mulch with 70 lbs./1000 s.f. small grain straw. Spray with 0.04 gal./sq. yd. emulsified asphalt.
 - e. If no germination within 4 weeks, then reseed.

NOTES:

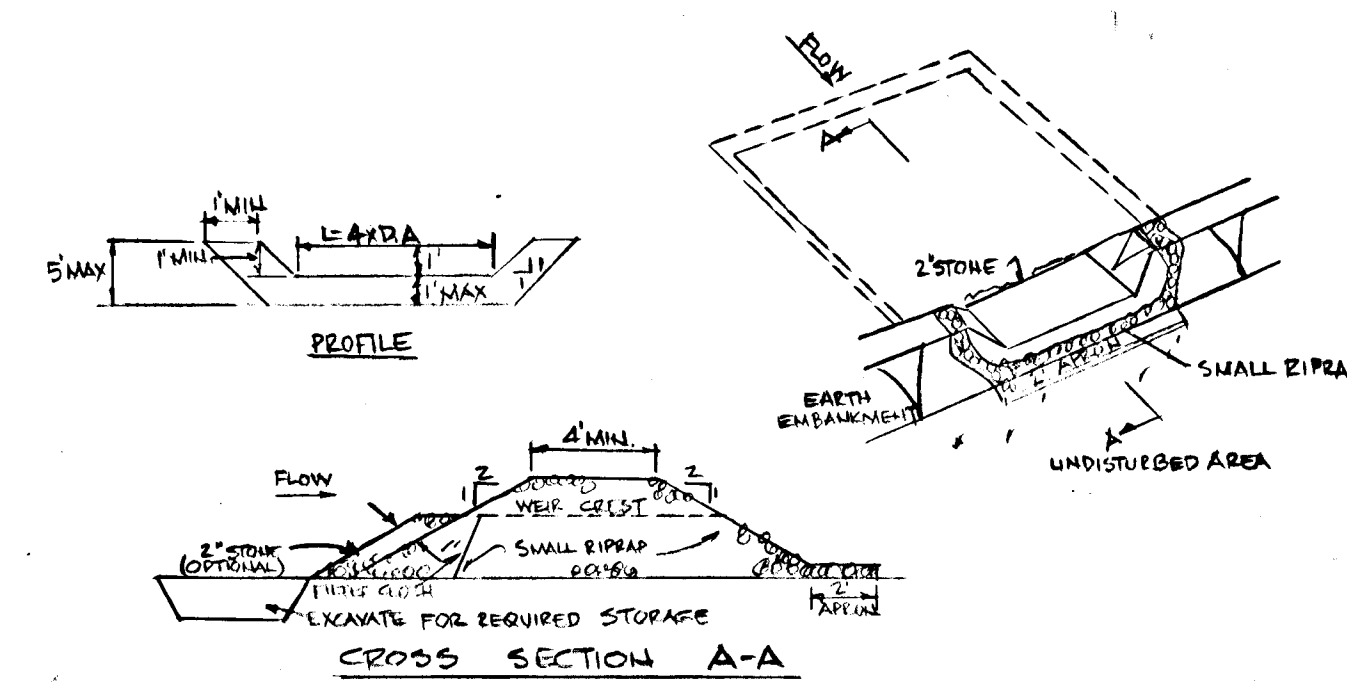
1. Notify the Howard Co. Bureau of Inspection & Permits @ least 48 hrs. before starting work.
2. All sediment control devices are to remain in place until permission for removal has been obtained from The Howard Co. Bureau of Inspections & Permits.
3. Structural measures such as berms, dikes, traps, basins, etc., will be installed & stabilized according to the plan prior to any disturbance of the existing surface of the site.
4. On site inspection and maintenance of all sediment control measure including cleanout of traps and berms 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.

TEMPORARY SEEDING NOTES:

1. Seed immediately upon construction with 1lb. rye grass per 1000 s.f.
2. Apply 46 lbs./1000 s.f. of pulverized dolomitic limestone and 115 lbs. to 18.4 lbs./1000 s.f. of 10x10x10 or equivalent fertilizer
3. Harrow or disc lime and fertilizer into the soil to a depth of at least 3 inch continue tillage until a resona by uniform fine firm seedbed the final harrowing or discing should be on the contour.
4. Mulch with straw @ 75 lbs./1000 s.f.



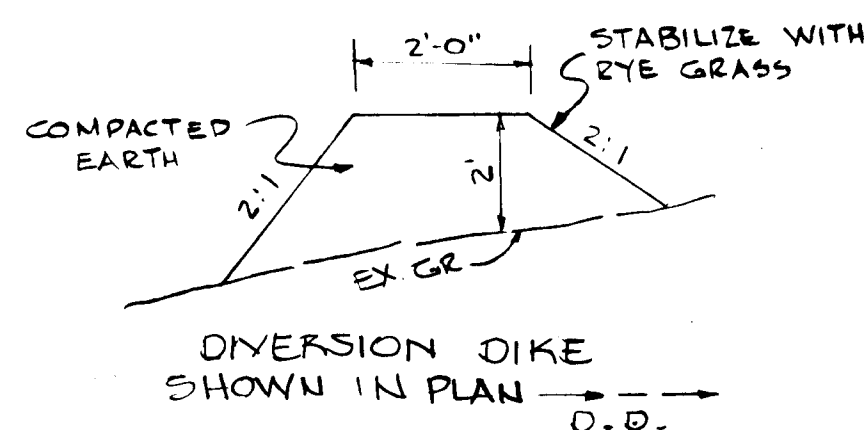
STONE OUTLET SEDIMENT TRAP V



OPTION: A ONE FOOT LAYER OF 2" STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH.

CONSTRUCTION SPECIFICATIONS FOR ST-V

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
 2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
 3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
 4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OR 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
 5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
 6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
 7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
 8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- MAXIMUM DRAINAGE AREA: 5 ACRES



THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD S.C.D.
 [Signature] 9/24/84
 HOWARD S.C.D. DATE
 REVIEWED FOR HOWARD SCD AND METS TECHNICAL REQUIREMENTS
 [Signature] 9/24/84
 U.S. FISH AND WILDLIFE SERVICE DATE



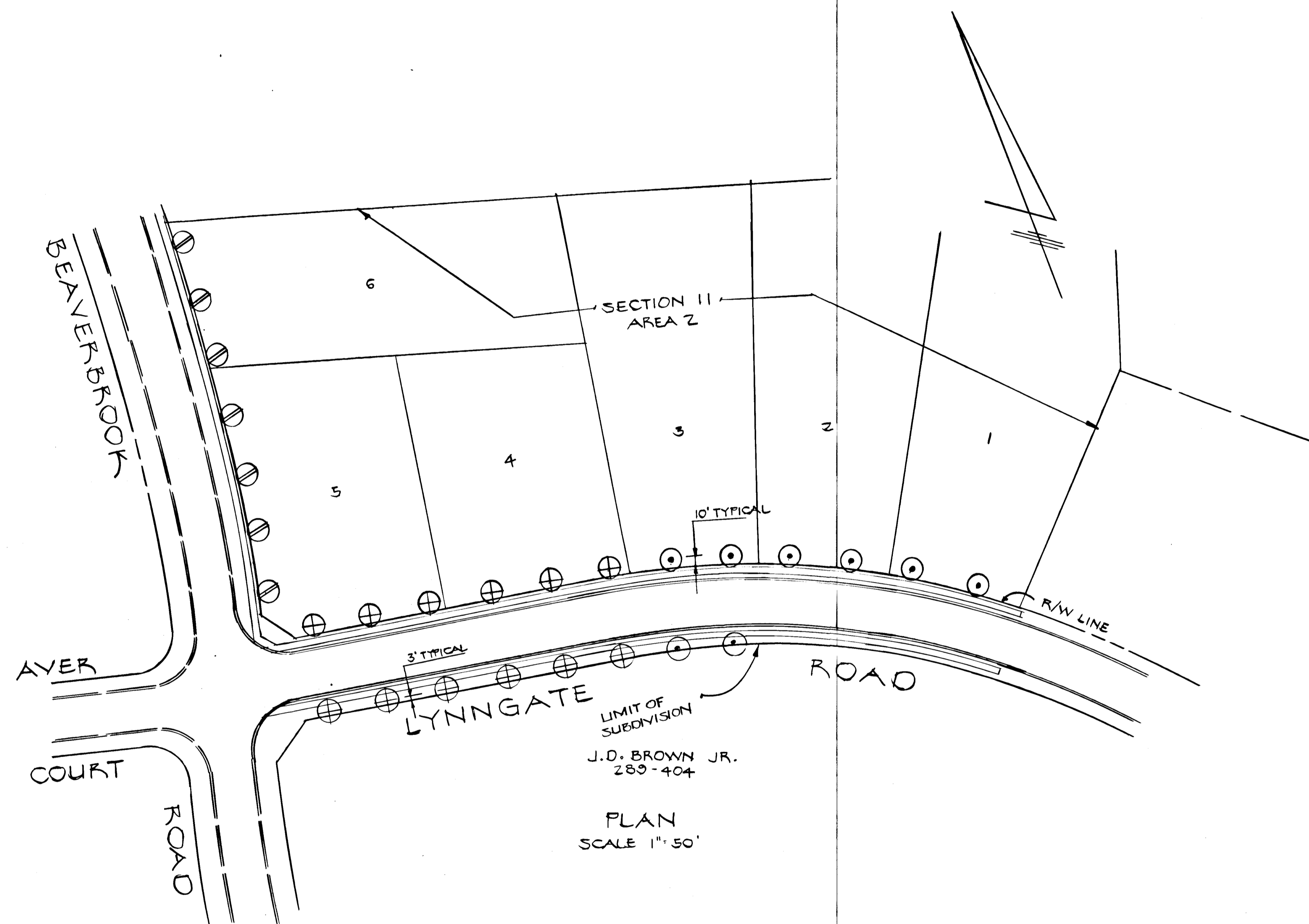
APPROVED: DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] 8/28/84
 CHIEF ENGINEER
 APPROVED HOWARD COUNTY DEPT. OF PLANNING
 [Signature]
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION DATE

HUDKINS ASSOCIATES, INC.
 101 SHELL BUILDING
 200 EAST JOTTA ROAD
 TOWSON, MARYLAND 21284
 828-0090
 [Signature] 8/28/84
 MALCOLM E. HUDKINS, P.E.
 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY	DATE	BY	NO.	REVISION	DATE
DRN:DWB					
CHK:AL					

SEDIMENT CONTROL PLAN

LYNNGATE ROAD
 BEAVERBROOK
 SECTION II AREA 2
 ELECTION DISTRICT 5
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 3 OF 5



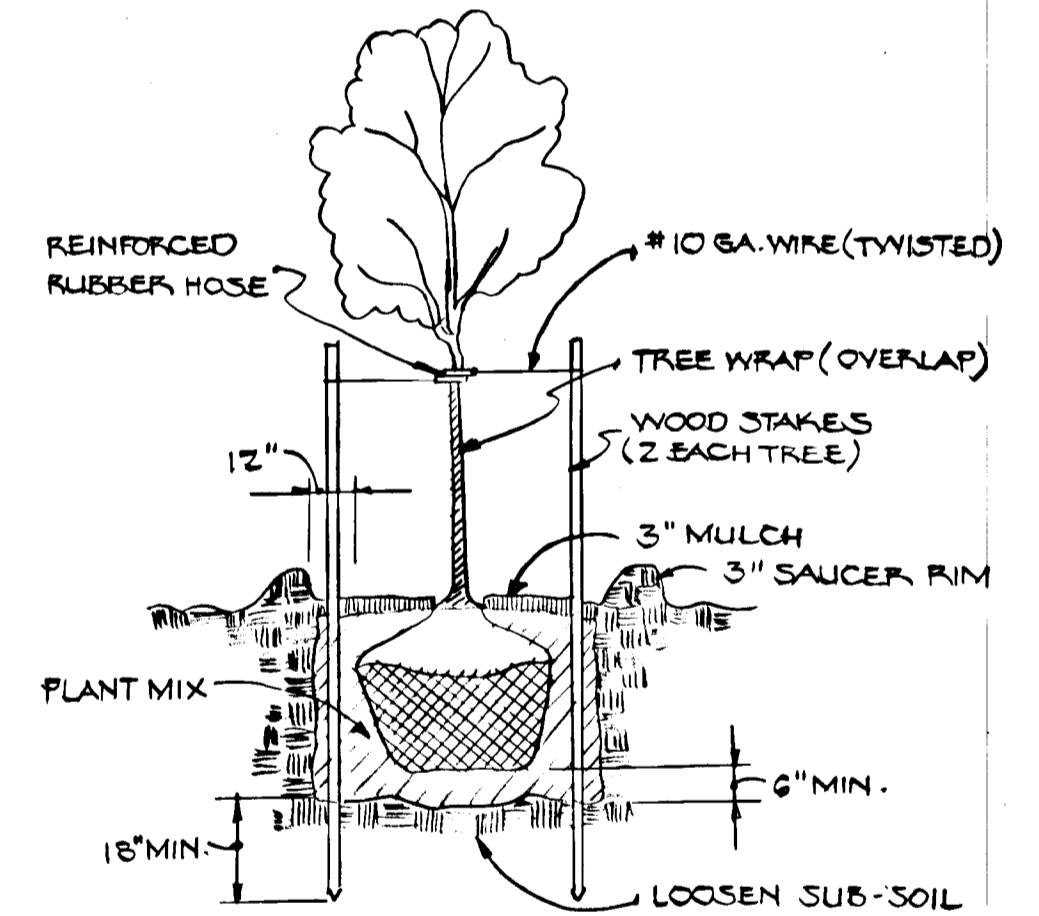
J.D. BROWN JR.
289-404
PLAN
SCALE 1" = 50'

- NOTES:
1. FINAL LOCATION OF TREES IS SUBJECT TO WALKS, DRIVEWAYS, UTILITIES, ETC.
 2. ALL TREES SHALL BE BALLED & BURLAPPED.
 3. PLANT MIX PER CUBIC YARD
3 PARTS TOPSOIL, 11 PART PEAT MOSS
2 POUNDS FERT. (10-6-4)
 4. ALL TREE PLANTING TO BE GUARANTEED FOR ONE (1) CALENDAR YEAR FROM TIME OF ACCEPTANCE.

PLANT LIST

SYMBOL	NAME	QUANTITY
⊗	QUERCUS PALUSTRIS PIN OAK	7
⊕	LIQUIDAMBER STYRACIFLUA - SWEET GUM	6
⊙	PLATANUS ACERIFOLIA LONDON PLANETREE	6

ALL TREES SHALL BE A MINIMUM OF 2 1/2 IN. CAL. AND 8 FT. HIGH



STAKING DETAIL

APPROVED: DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

HUDKINS ASSOCIATES, INC.
101 SHELL BUILDING
200 EAST JOTPA ROAD
TOWSON, MARYLAND 21204
828-3060



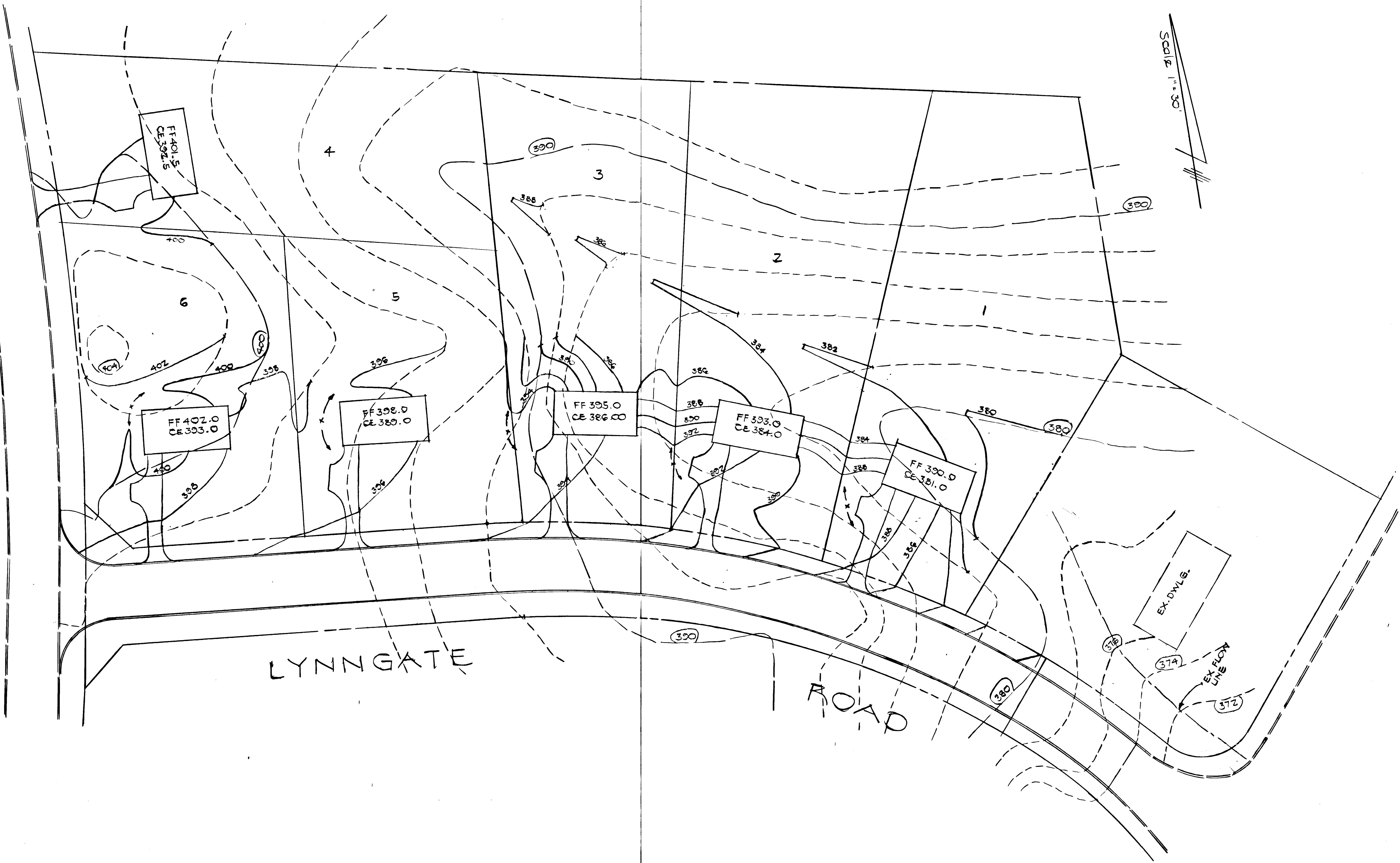
DES: DWB				
DRN: DWB				
CHK: AL				
DATE:	BY	NO.	REVISION	DATE

STREET TREE
PLANTING DETAILS

BEAVERBROOK ROAD
LYNNGATE ROAD
BEAVERBROOK
SECTION 11 AREA 2
ELECTION DISTRICT 5
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 5

BEAVERBROOK ROAD



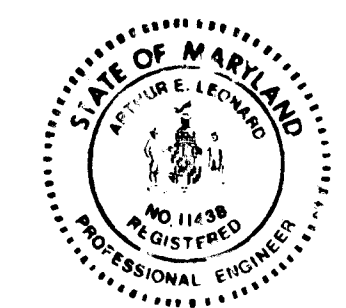
LYNNGATE ROAD

APPROVED: DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

HUDKINS ASSOCIATES, INC.
200 EAST JOPPA ROAD
ROOM 101, SHELL BUILDING
TOWSON, MARYLAND 21204

Arthur Leonard 6-1-84



DES: DWB					
DRN: DWB					
CHK: AL					
DATE:	BY	NO.	REVISION	DATE	600' SCALE MAP NO. _____ BLOCK NO. _____

GRADING PLAN

BEAVERBROOK
SECTION 11 AREA 2
ELECTION DISTRICT 5
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 5 OF 5