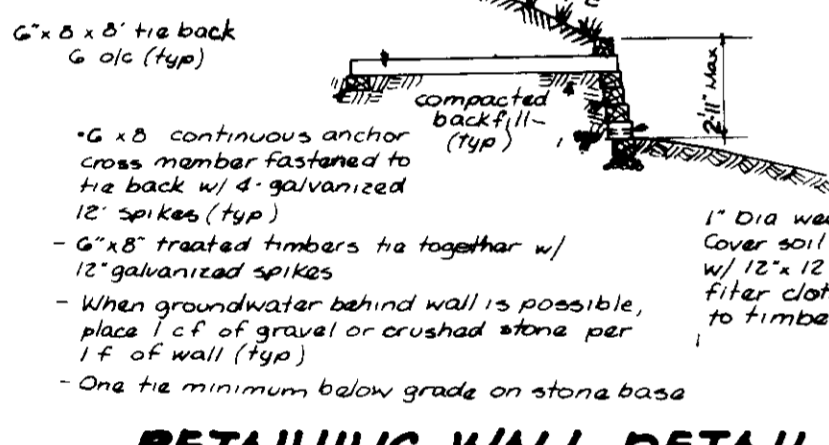


**DRIVEWAY ABUTTING CLOSED SECTION WITH STR 2" COMB. CURB / GUTTER / SIDEWALK SET BACK FROM CURB**

**DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK**

- Notes**
- Timbers shall be either:
    - Cresote treated railroad ties
    - CCA treated landscaping timbers (40 lb/cf retention)
  - Hardware shall be hot dipped galvanized
  - Washpiles with or without gravel drain are minimum 20" measures for groundwater. For any substantial amount of groundwater, a drain system should be designed and utilized
  - Design shall be varied for site specific soil condition by a Professional Geotechnical Engineer



**REVISIONS**

NO	REVISIONS	DATE	DESCRIPTION
1	Rev hsc type Lot 2 from Burlington to Buckingham	03/88	
2	Lot 12 from Augusta to Nantucket	03/88	

**APPROVED**  
 HOWARD COUNTY MARYLAND  
 8-11-88

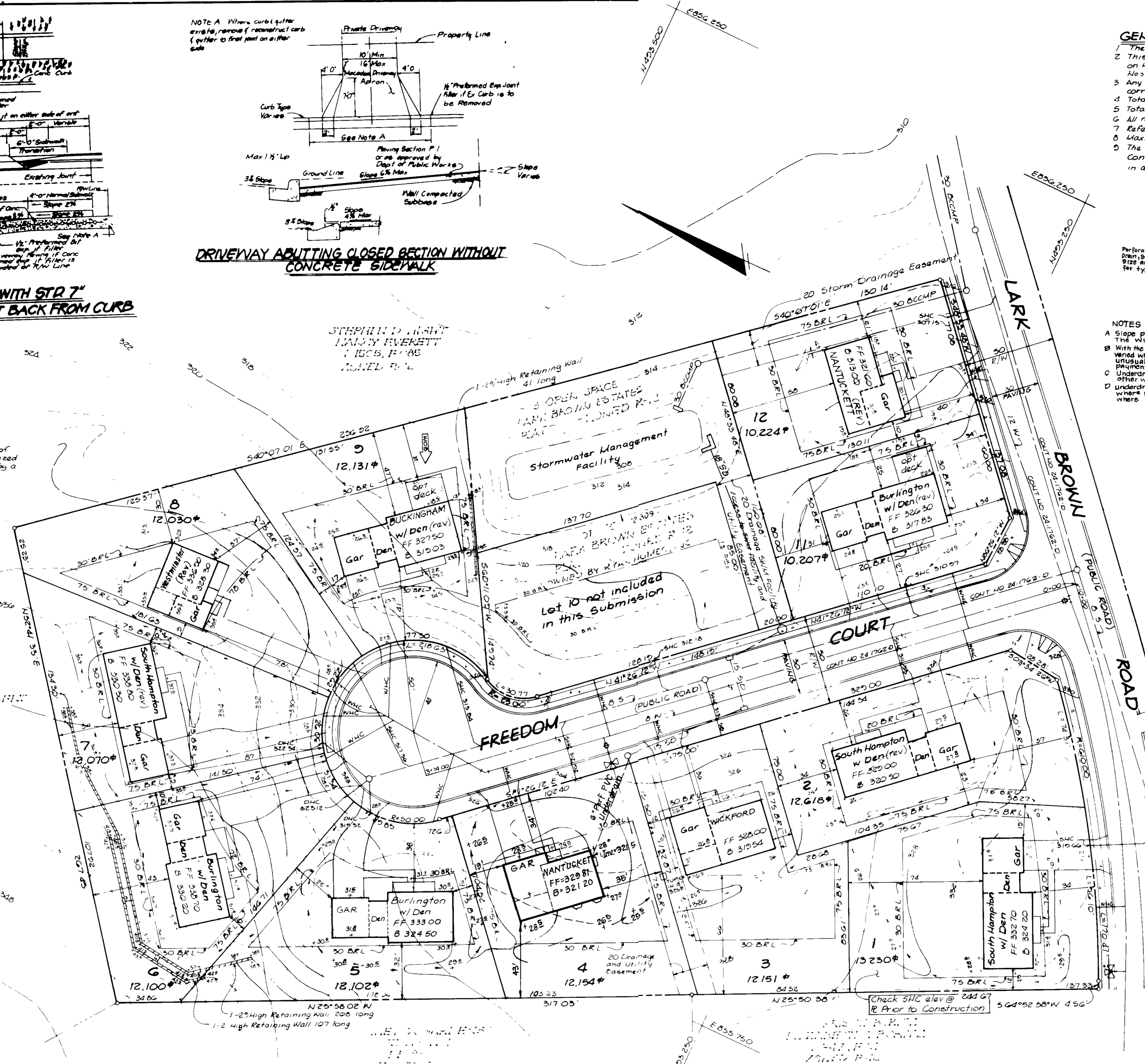
**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS**  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 3/8/89

**APPROVED FOR PLANNING AND ZONING**  
 HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DATE: 3/22/89

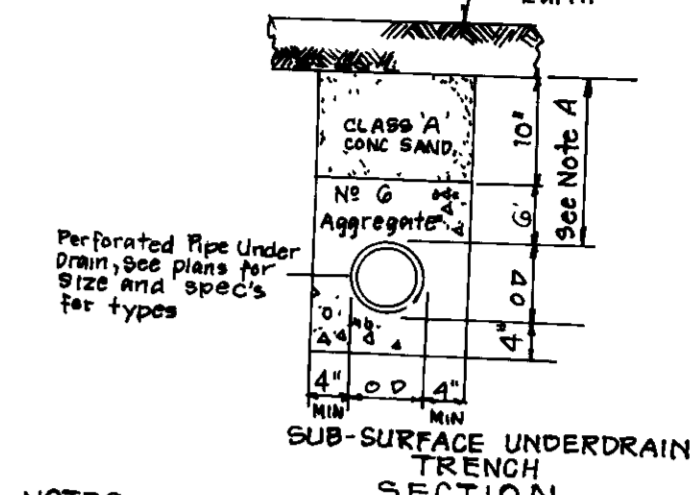
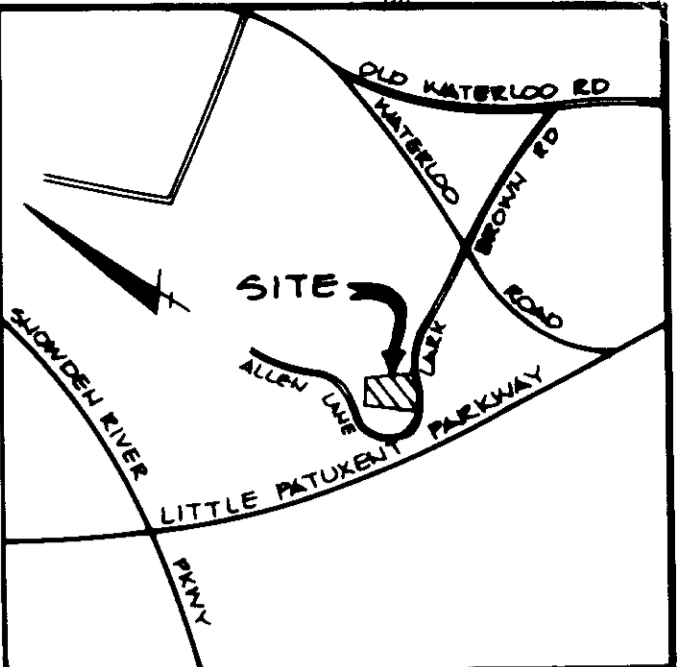
**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS**  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 3-6-89

**REVISION**

Date	REVISION	NO
9-21-89	Rev lot 4 hsc (from South Hampton to Nantucket) & show 6" under drain & detail	1
		NO



- GENERAL NOTES**
- The land included is zoned R-12
  - This plot and the coordinates shown hereon are based on Howard County Geodetic Control traverse stations Nos 2343001, E 2442501
  - Any damage to County owned rights-of-way shall be corrected at the Developer's expense
  - Total number of lots included in this plan 11 lots
  - Total area included in this plan 300 Ac
  - All roadways are public and existing
  - Reference plans P-88-14, S 87 02, F-88-170
  - Maximum building coverage is 30% per lot
  - The Contractor or Developer shall contact the Construction Inspection / Survey Division, 24 hours in advance of commencement of work @ 792-2630



- NOTES**
- Slope protection using 4" to 7" size stone shall be used. The width of stone protection to be 2'
  - With the approval of the Engineer, the dimensions shown may be varied where underdrains are pulled into an inlet or where other unusual conditions prevail. See specifications pertaining to underdrains for extra depth of trench
  - Underdrains shall be laid on a minimum 5% grade unless otherwise approved by the engineer
  - Underdrains shall be cut off into inlets and manholes where possible & shall be cut off into the roadway slopes where no inlets or manholes are available for connection

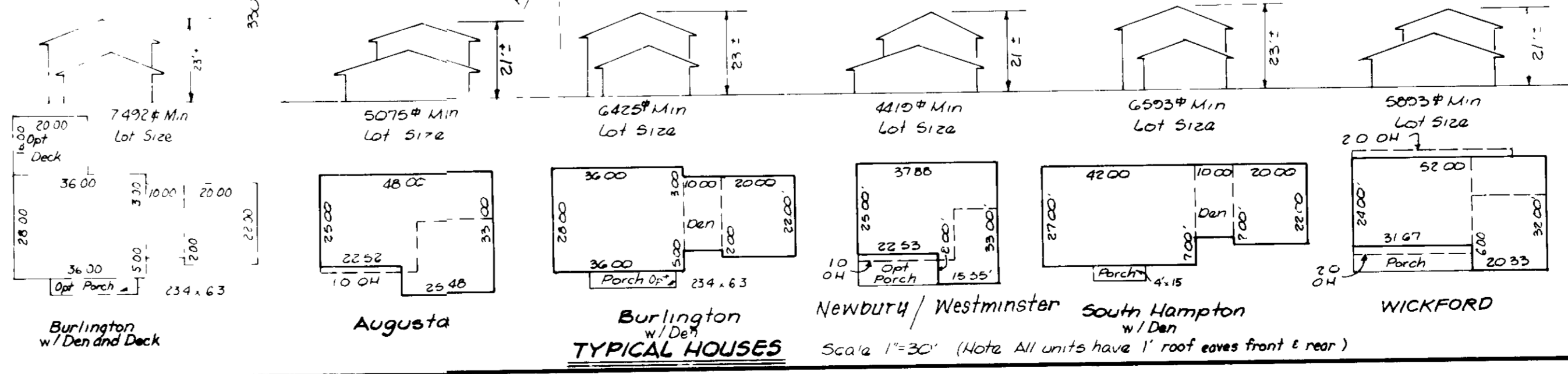
**SPECIAL NOTES**  
 Approved Road Construction Plans shall be used for all public utilities  
 Public Water and Sewer shown for reference only. For more detailed information - see Water and Sewer plans - Contract No 24-1762-D  
 The Water and Sewer house connections not included in a Developer's Agreement shall conform to Howard Co. Plumbing Code. The on-site WHC shall be 1" copper, and the SHC shall be 4" iron  
 Stormwater Management provided for by F-88-178

**BUILDING RESTRICTION LINES**  
 Front - 30 Min Unless noted otherwise  
 Rear - 30 Min  
 Side - 7.5 Min

**ADDRESS CHART**

LOT No	STREET ADDRESS
1	8400 Lark Brown Road
2	8401 Freedom Court
3	8405
4	8409
5	8413
6	8417
7	8422
8	8418
9	8414
11	8402
12	8386 Lark Brown Road

\*Existing contours taken from plans prepared by Hicks Engineering Co., Inc



**Subdivision Name** LARK BROWN ESTATES  
**Plot No** 8385  
**Block No** 19  
**Zone** R-12  
**Tax/Map No** 37  
**Elec Dist** Gth  
**Census Tr** 6065.02  
**Water Code** E08  
**Sewer Code** 3450000

**CLARK • FINEBROCK & SACKETT, INC**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 • BALTO • (301) 621-8100 • WASH

**SITE DEVELOPMENT PLAN**  
 Lots 1 thru 9, 11 & 12

**LARK BROWN ESTATES**  
 Parcel 322  
 6th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**FOR** RYAN HOMES, INC  
 2175 Guilford Road # 200  
 Columbia, Maryland 21046

**DATE** 12-27-88  
**SCALE** 1" = 30'  
**DRAWING** 1/2  
**JOB NO** 00 077  
**FILE NO** 00-077-X

**SDP-89-12**

- 1) A minimum of 24 hour notice must be given to the Board County Office at the location and permit to the start of any construction (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and to be in compliance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) 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. 5) 14 days as to all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates do not allow for proper germination and establishment of grasses.
- 6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis  
 Total Area of Site: 4.41 Acres  
 Area Disturbed: 2.24 Acres  
 Area to be roofed or paved: 1.55 Acres  
 Area to be vegetatively stabilized: 2.74 Acres  
 Total Cut: 2028 Cu Yds  
 Total Fill: 242 Cu Yds  
 Off-site waste/borrow area locat.: N/A
- 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment control must be provided, if deemed necessary by the Howard County DEM sediment control inspector.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- 11) If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
- 12) All pipes to be blocked at the end of each day (see detail below).
- 13) The total amount of straw bale dikes/silt fence equals L.P.

NOTE: All existing controls to be utilized are from previously approved plan No F88-178

EXISTING BASIN TO BE UTILIZED AS SHOWN ON APPROVED PLAN NO. F88-178

Pradip K Ghosh hereby authorizes Ryan Homes Inc to utilize the existing sediment and erosion control measures shown on plan F88-178 for Sediment Control for this project. If Pradip K Ghosh removes the existing sediment and erosion control measures prior to completion of SDP 89-12, a revised sediment and erosion control plan shall be required.

Pradip K Ghosh  
 7/15/88

APPROVED FOR HOWARD COUNTY  
 Signature: [Signature]  
 U.S. Soil Conservation Service

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

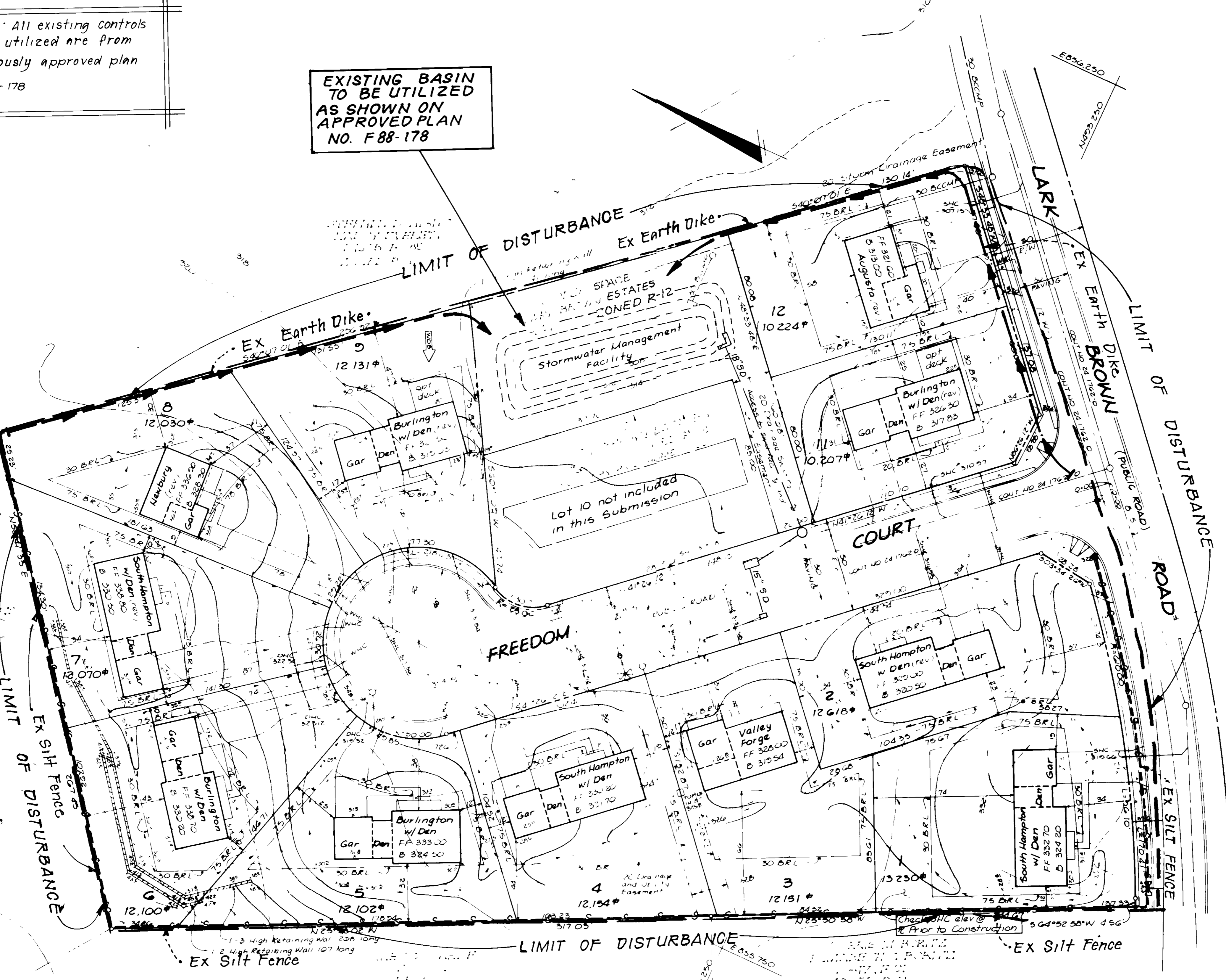
Signature: [Signature]  
 Date: 2/24/89

APPROVED DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
 HOWARD COUNTY, MARYLAND  
 DATE: 8-11-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 Signature: [Signature]  
 DATE: 3/18/89

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Signature: [Signature]  
 DATE: 3/23/89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Signature: [Signature]  
 DATE: 3/6/89



**LEGEND**

Contour Interval	2 FT
Existing Contour	---(10)---
Proposed Contour	---(10)---
Spot Elevation	10.8
Direction of Drainage	→
Walk-out Basement	---(10)---
Trees to be Saved	(Tree symbol)
Existing Trees	(Tree symbol)
Silt Fence	---(10)---
Earth Dike	---(10)---

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seeded Preparation** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously incorporated.

**Soil Amendments** In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaformal fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

**Seeding** - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 80 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching** - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

**Maintenance** - Inspect all seeded areas and make needed repairs, replacements and reseeding.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

**Seeded Preparation** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously incorporated.

**Soil Amendments** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

**Seeding** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**Mulching** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**CONSTRUCTION SEQUENCE**

NO	DESCRIPTION	NO OF DAYS
1	OBTAIN GRADING PERMIT	1
2	COMPLETE STEP 5 IN CONSTRUCTION SEQUENCE	1
3	ON PREVIOUSLY APPROVED PLANS F-88-14 Sht. 5 of 2	1
4	EXCAVATE FOR FOUNDATIONS AND ROUGH GRADE & TEMPORARILY STABILIZE	14
5	CONSTRUCT STRUCTURES, SIDEWALKS & DRIVEWAYS	180
6	FINAL GRADE & STABILIZE IN ACCORDANCE WITH STDS. & SPECS	10
7	REMOVE ALL SEDIMENT FROM ROADWAY AND FLUSH STORM DRAIN SYSTEM	2
8	UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT & EROSION CONTROLS & STABILIZE	5

Note: Prior to commencement of work all existing controls to be utilized must be inspected & approved by the Sediment Control Inspector

**DEVELOPER'S/BUILDER'S CERTIFICATE**

I/We 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 Dept of Natural Resources Approved Training Program for the Control 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: [Signature]  
 Date: 7-18-88

**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.

Signature: [Signature]  
 Date: 7-19-88



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 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINISTREL WAY • COLUMBIA MD 21045 • (301) 381-7300 - BALTO • (301) 621-8100 - WASH

DESIGNED MCB	SEDIMENT & EROSION CONTROL PLAN Lots 1 thru 9, 11 & 12	SCALE 1" = 50'
DRAWN PER	<b>LARK BROWN ESTATES</b> Parcel 522	DRAWING 2 of 2
CHECKED MCB	G <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 00-077
DATE 6-27-88	RYAN HOMES, INC 2175 Guilford Road #200 Columbia, Maryland 21046	FILE NO 00-077-5E

SDP-89-12