

- NOTES:
1. Notify the Howard Co. Bureau of Inspection & Permits @ least 24 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 measures 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 side on a continuing day to day basis.

- TEMPORARY SEEDING NOTES:
1. Seed immediately upon construction with 1 lb. 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 of equivalent fertilizer.
 3. Harrow or disc lime and fertilizer into the soil to a depth of at least 3 inch continue tillage until a reasonably uniform fine firm seedbed the final harrowing or discing should be on the contour.

- SEDIMENT CONTROL SEEDING NOTES:
1. Notify Howard County Bureau of Inspection 48 hours before starting work.
 2. Install Sediment Control measures in accordance with "Standards & Specifications for Soil Erosion & Sediment Control in development 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% Chewing Fescue, 20% Kentucky 31, & 20% Annual Rye, Rake with York Rake (Min. 3 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.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR: *John W. Wainman* DATE: 9-30-86

CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE:

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: _____ DATE:

APPROVED: FOR PUBLIC WATER PUBLIC SEWER STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS

DIRECTOR: _____ DATE:

CHIEF BUREAU OF ENGINEERING: _____ DATE:

CERTIFICATION BY DEVELOPER

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION & SEDIMENT CONTROL & THAT ALL RESPONSIBLE PERSONNEL INVOLVED WITH 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. I ALSO AUTHORIZE PERIODIC INSPECTION ON SITE BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

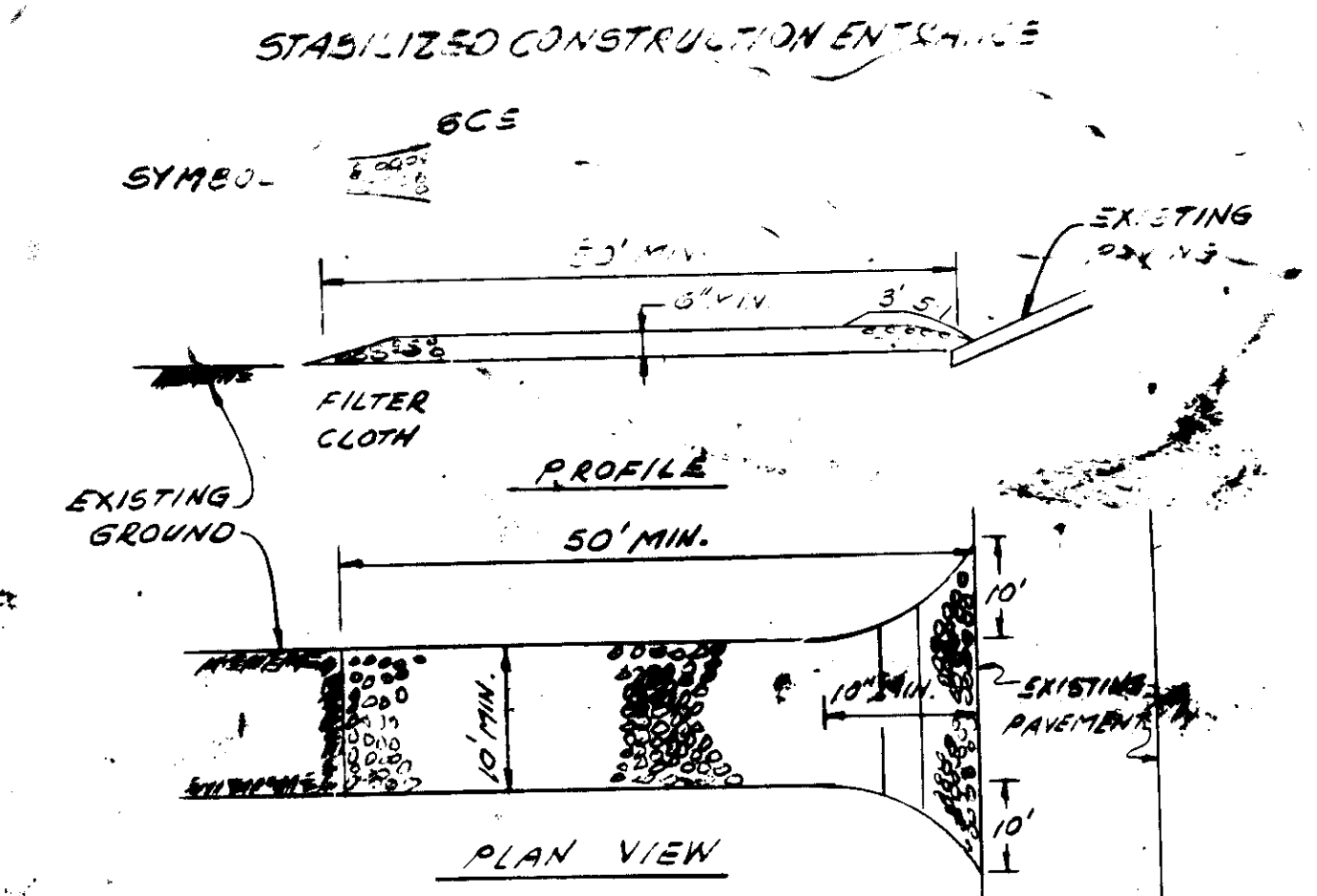
SIGNATURE: _____ DATE: _____

CERTIFICATION BY ENGINEER

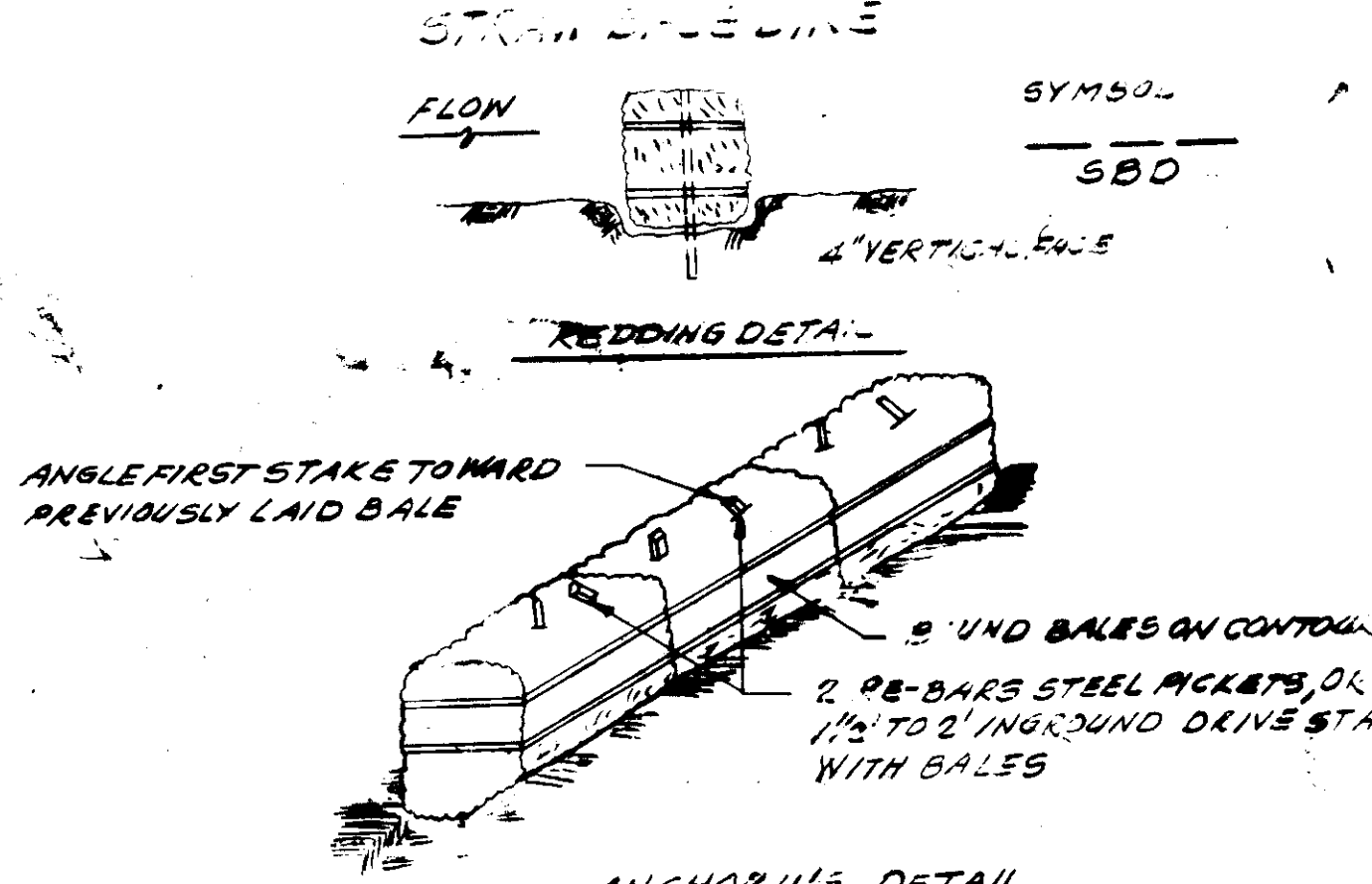
I CERTIFY THAT THIS PLAN OF DEVELOPMENT & PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON MY KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE: *Walter Park* DATE: 9/22/86

WALTER PARK
RLS # 5330



- CONSTRUCTION SPECIFICATIONS**
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at point where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filler will not be required on a single family residence lot.
 6. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable beam with 5:1 slopes will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights of way. This may require periodic top pressing with additional stone as conditions demand and repair and/or cleanout of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights of way must be removed immediately.
 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

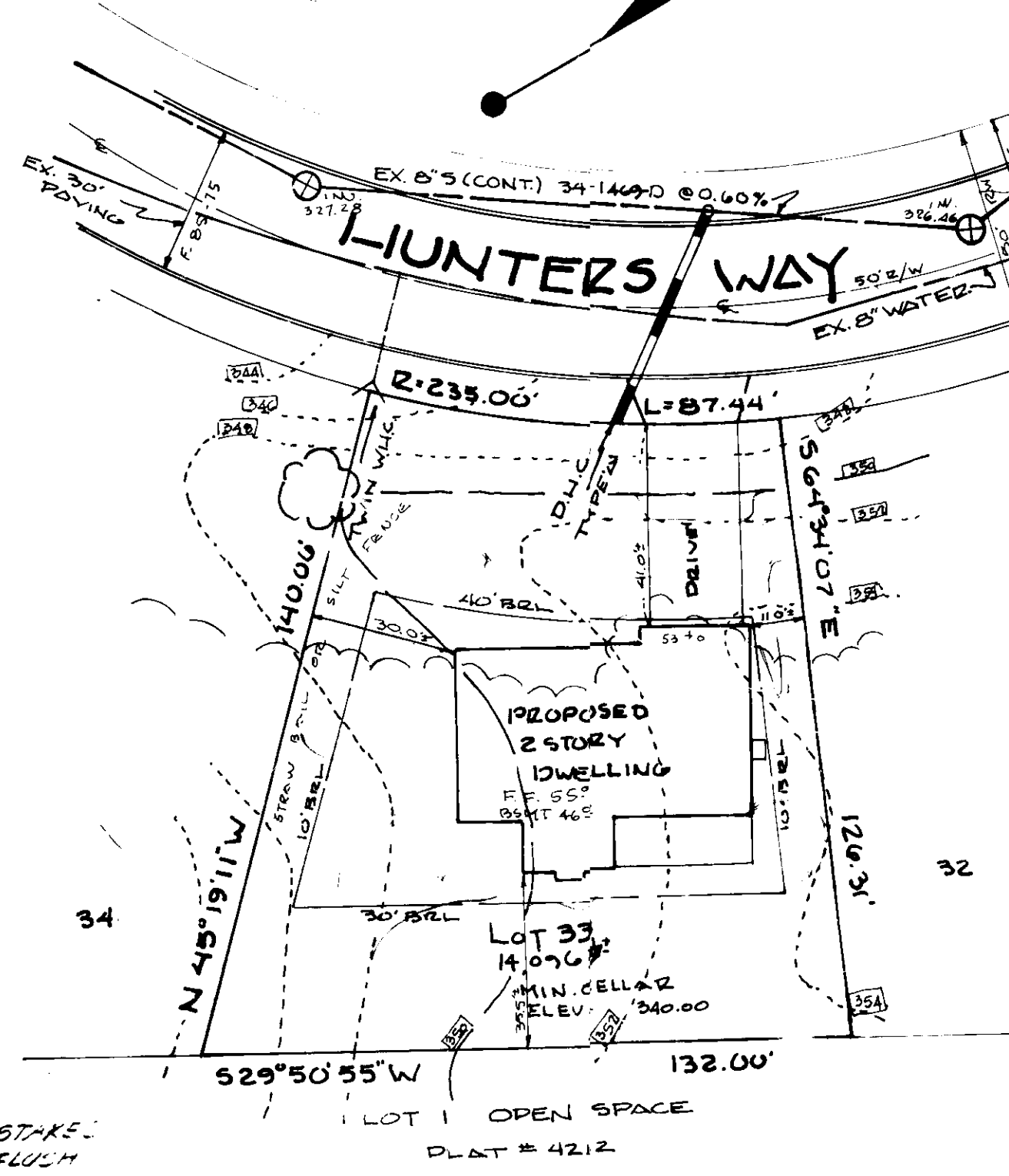


- CONSTRUCTION SPECIFICATIONS**
1. Bales shall be placed at the toe of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 2. Each bale shall be embedded in the soil a minimum of (4) inches, placed so the bindings are horizontal.
 3. Bales shall be securely anchored in place by either two stakes or re-bags driven through the bale. The first stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
 4. Inspection shall be frequent and repair replacement shall be made promptly as needed.
 5. Bales shall be removed when they have served their usefulness as as not to block or impede storm flow or drainage.

NOTE:

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMP. STABILIZATION SHALL BE COMPLETED WITHIN:

1. SEVEN CALENDER DAYS FOR ALL PERIMETER, SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1
2. FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.



- SITE ANALYSIS**
1. ZONING R-20
 2. TOTAL NUMBER OF LOTS OR PARCELS 1
 3. TOTAL AREA OF LOTS OR PARCELS = 0.32 AC ± 14,000 sq. ft.
 4. TOTAL AREA TO BE DISTURBED = 0.17 AC ±
 5. TOTAL AREA TO BE REVEGETATED = 0.16 AC ±

OWNER:
RICHARD GREENBERG
% 5520 CEDAR LANE
COLUMBIA, MD 21044
955-0133

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT & MEETS TECHNICAL REQUIREMENTS

James M. Helm 9-23-86
SOIL CONSERVATION SERVICE DATE

APPROVED FOR SOIL EROSION & SEDIMENT CONTROL, HOWARD SOIL CONSERVATION DISTRICT.

Stephen R. Hahn 9/23/86
SIGNATURE

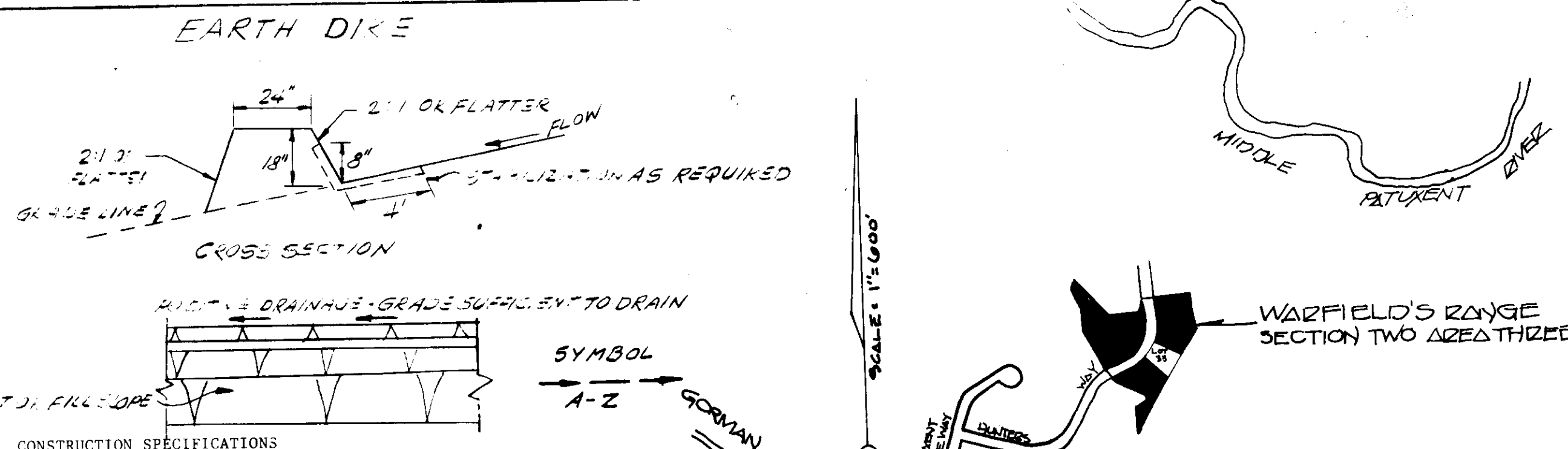
DEVELOPER:
ZCM CORPORATION
CUSTOM HOME BUILDERS
5520 CEDAR LANE
COLUMBIA, MD 21044
955-0133

SURVEYORS & ENGINEERS
HUDKINS ASSOCIATES, INC
231 JOSEPH SQUARE
COLUMBIA, MD 21044
750-3060

9-2-86

ADDRESS SHEET	LOT NUMBER	STREET ADDRESS
LOT 33	10544 HUNTERS WAY	
WOLFELDS RANGE		SECT. 2, AREA 3, LOT 33
PLAT # OF 1/4" SCALE	6780	19
SECTION	2	42
BLK. DIST. CURBS TR.		42
WATER CODE	E-17	
SEWER CODE	6360000	

SITE DEVELOPMENT PLAN
LOT 33 SECTION 2 AREA 3
WARFIELD'S RANGE
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND
SCALE: 1"=30'
SHEET 1 OF 1
JULY 21, 1980

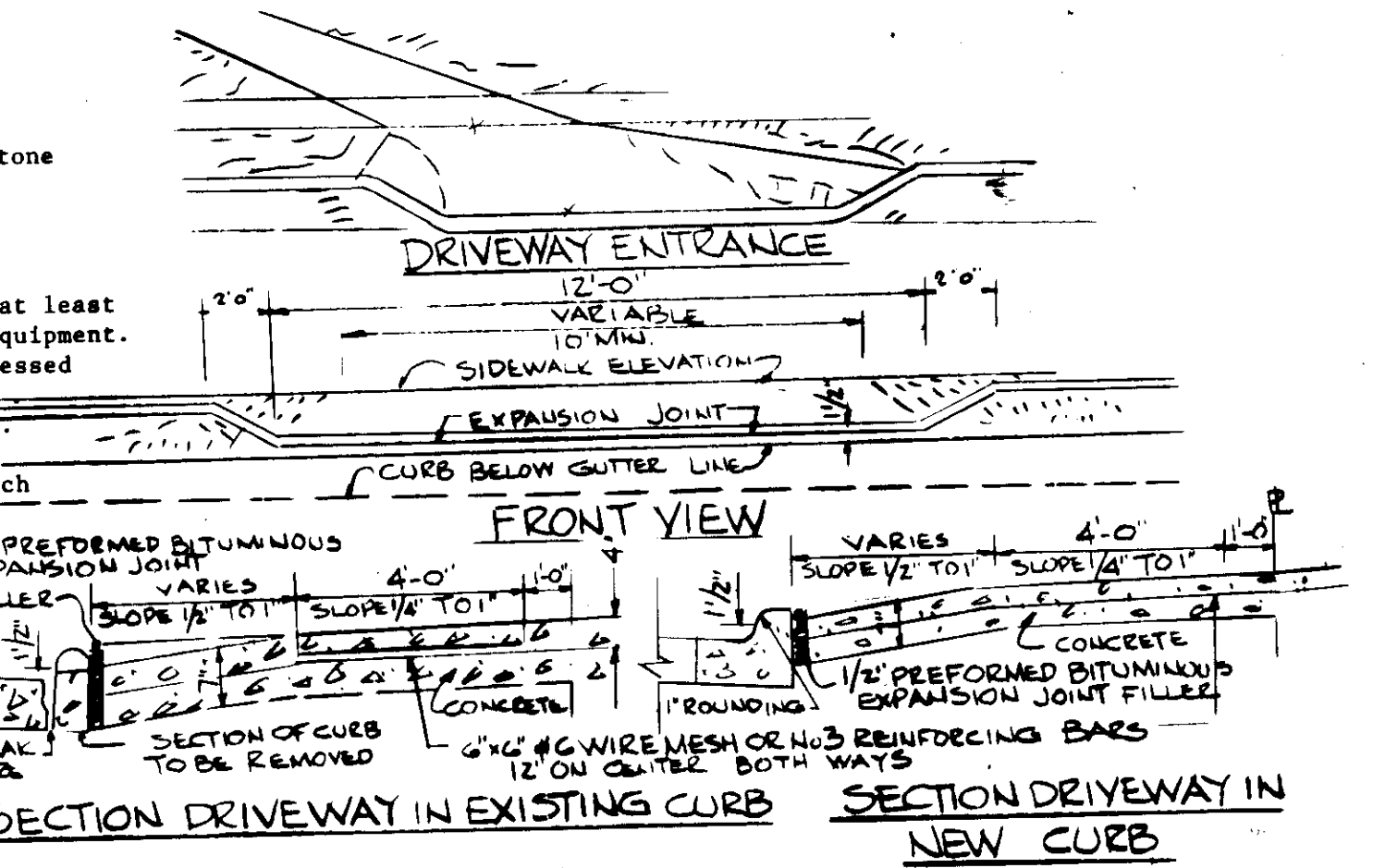


- CONSTRUCTION SPECIFICATIONS**
1. All dikes shall be compacted by earth-moving equipment.
 2. All dikes shall have positive drainage to an outlet.
 3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
 4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
 5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
 6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season. (B) Flow channel as per the chart below.

FLOW CHANNEL STABILIZATION

Type of Treatment	Channel Grade	Dike A	Dike B
1	1-5:1	Seed and Straw Mulch	Seed and Straw Mulch
2	3-1-5:1	Seed and Straw Mulch	Seed using Jute or Excelsior; Sod; 2" Stone
3	5-1-8:1	Seed with Jute, or Sod;	Lined Rip-Rap 4-8"
4	8-1-20:1	2" Stone	Engineering Design

- A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
 - B. Rip-Rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.
 - C. Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and required maintenance must be provided after each rain event.



NOTE: ALL CONSTRUCTION SHALL CONFORM TO THE HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECIFICATIONS USE THIS DRIVEWAY SECTION WITH THE EXISTING CONC. PERON CONFORMING WITH THE HOWARD CO STD DRAWING R-6-73

CONSTRUCTION SCHEDULE

DESCRIPTION OF WORK	FROM DAY NO.	TO DAY NO.	TOTAL NO. DAYS
OBTAIN GRADING PERMIT	1	1	1
INSTALL 2-D. EROSION CONTROL DEV.	1	3	2
CLEARING & ROUGH GRADING	3	4	1
EXCAVATION FOR FOUNDATIONS	4	6	2
FOOTINGS FOUNDATION WALLS	6	11	5
CONSTRUCT STRUCTURE	11	60	49
FINE GRADING	80	82	2
EFFECTIVE STABILIZATION	82	90	8