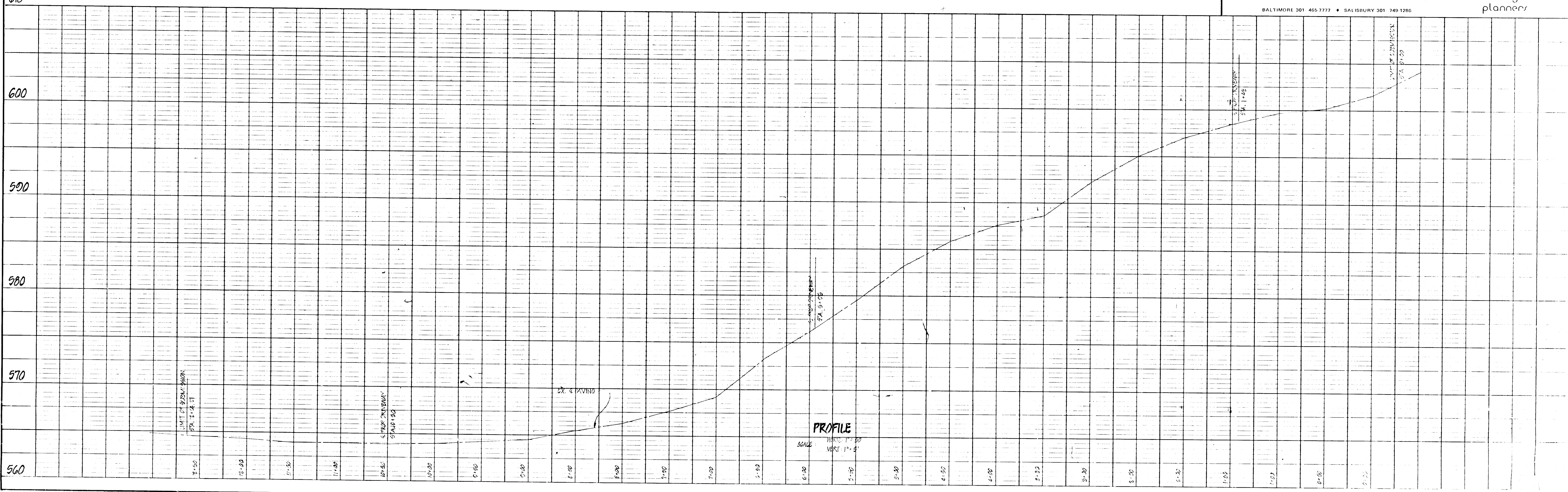
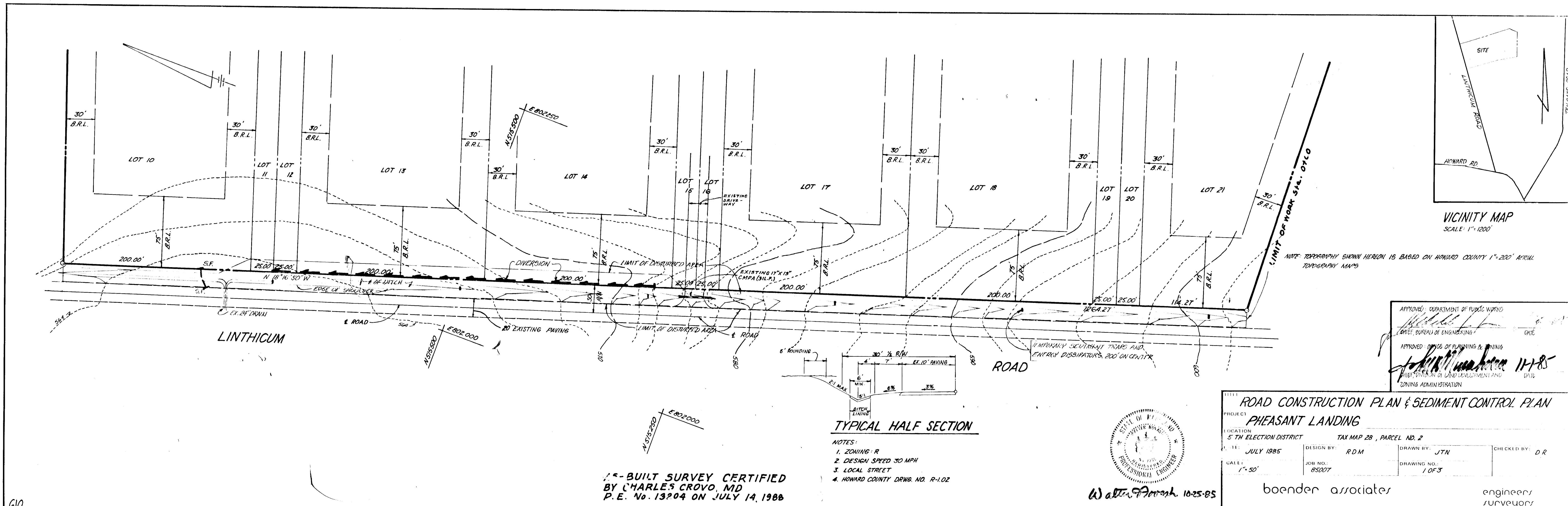


DATE: _____
 BY: _____
 PLAN NO. _____
 DATE: _____
 BY: _____
 NOTE BOOK NO. _____
 DATE: _____
 BY: _____
 CHECKED: _____
 DATE: _____

DATE: _____
 BY: _____
 PROFILE NO. _____
 DATE: _____
 BY: _____
 CHECKED: _____
 DATE: _____



ROAD CONSTRUCTION PLAN & SEDIMENT CONTROL PLAN
PHEASANT LANDING

PROJECT: PHEASANT LANDING
 LOCATION: 5 TH ELECTION DISTRICT, TAX MAP 28, PARCEL NO. 2
 DATE: JULY 1985
 DESIGN BY: RDM
 DRAWN BY: JTN
 CHECKED BY: D.R.
 JOB NO.: 85007
 DRAWING NO.: 10F3

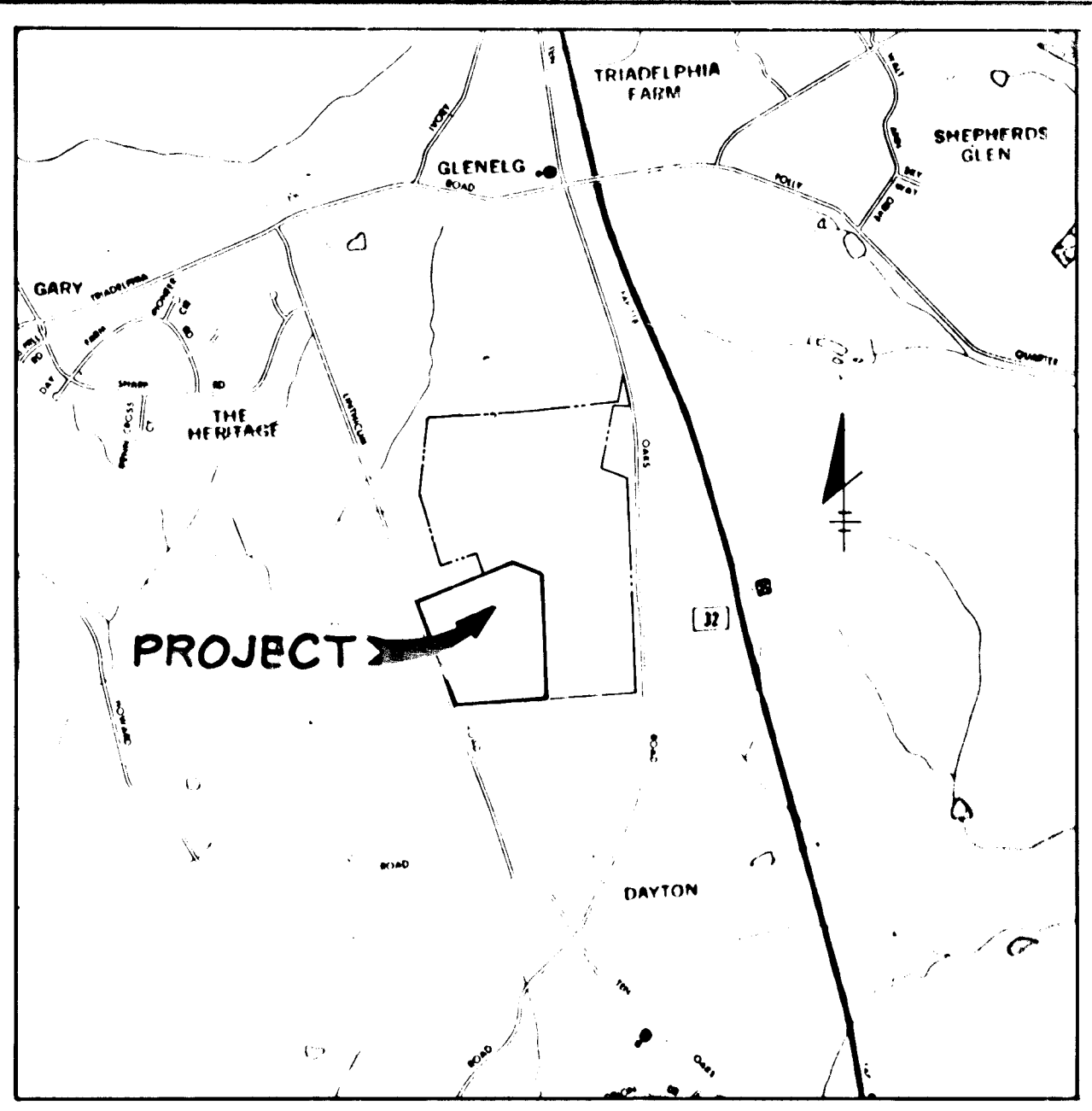
boender associates
 BALTIMORE 301 465-7777 • SALISBURY 301 749-1286
 engineers, surveyors, planners

APPROVED DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING DATE 11/1/85

APPROVED OFFICE OF PLANNING & ZONING
 PLANNING DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 11-1-85

PERCOLATION TEST DATA

LOT NO.	N/W LOT NO.	AVERAGE PERC. TIME IN MIN FOR 2 IN. IN. H.	MAX. DEPTH PERMITTED FOR EFFLUENT PIPE TO ENTER SEWAGE DISPOSAL AREA AT ITS HIGHEST ELEV. W/ REF. TO EXIST. GRADE AT TIME OF TEST
10	2	7 MIN	4'
11	11	5 MIN	4'
11/12	12	4 MIN	3.5'
10/13	13	5 MIN	4'
13	14	5 MIN	4'
12	15	2 MIN	3'
15	16	3 MIN	3'
14	17	2 MIN	4'
19/17	18	5 MIN	3'
15/16	19	5 MIN	3'
16	20	7 MIN	3.5'
17	21	5 MIN	3.5'



VICINITY MAP
 1"=2000'

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT
2. NOTIFY THE HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS, AND PERMITS AND THE CONSTRUCTION INSPECTION (SURVEY DIVISION @ 792-7272 AT LEAST 24 HOURS PRIOR TO THE BEGINNING OF GRADING OPERATIONS.
3. INSTALL DIVERSION AND STABILIZE, INSTALL SILT FENCE. (1 DAY)
4. GRADE SHOULDER AND SWALE, INSTALL TEMPORARY SEDIMENT TRAPS/ENERGY DISSIPATORS AS WORK PROGRESSES. (2 DAYS)
5. APPLY PERMANENT STABILIZATION MEASURES. (1 DAY)
6. REMOVE TEMPORARY SEDIMENT CONTROL UNTIL APPROVAL OF THE HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS AND PERMITS. (1 DAY)

SITE DATA

	ZONING	R
GROSS AREA		42.059 ACRES
AREA OF PROPOSED LOTS		42.059 ACRES
AREA OF PROPOSED ROADS		0
TOTAL LOTS		12

GENERAL NOTES

1. CONTOUR SHOWN HEREON ARE DERIVED FROM 1"=200 COUNTY TOPOGRAPHY MAPS.
2. PRIVATE WATER AND SEWER SYSTEMS WILL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.
3. SEDIMENT AND EROSION CONTROL DEVICES WILL BE PROVIDED IN ACCORDANCE WITH HOWARD SOIL CONSERVATION SERVICE REGULATIONS ON THE FINAL PLANS.
4. 0 - INDICATES LOCATION OF PERC. HOLES WHICH HAVE BEEN FIELD LOCATED.
5. SEE VARIANCE PETITION # VP-80-BB AND # VP-81-79.
6. BASE MAP PREPARED BY TRACY, SHULTE & ASSOCIATES, INC.

NO	DATE	REVISION

SEE CO. FILE VP 80-86 & V.P. 81-79 S-84-41 & F81-03

OWNER KENNARD WARFIELD, JR. 14415 TRIADELPHIA RD GLENELG, MD. 21731	PROJECT PHEASANT LANDING A RESUBDIVISION OF KENNARD WARFIELD, JR. PPO# LOTS 314
DEVELOPER KENNARD WARFIELD, JR. 14415 TRIADELPHIA RD GLENELG, MD. 21731	LOCATION 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND PARCEL 2 TAX MAP 28
	TITLE DRAINAGE AREA MAP
DES JKT	DRN LRC
DATE APRIL, 1985	PROJECT NO 8507
SCALE 1"=100'	DRAWING 2 OF 3

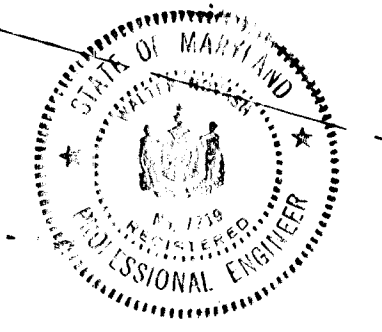
1-S-BUILT SURVEY CERTIFIED
 BY Charles Crovo P.E. No 13204
 July 14, 1988

DEVELOPER'S CERTIFICATE
 I 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Kennard Warfield, Jr. 9/17/85
 DEVELOPER DATE

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Walter F. Fawcett 10-25-85
 ENGINEER DATE

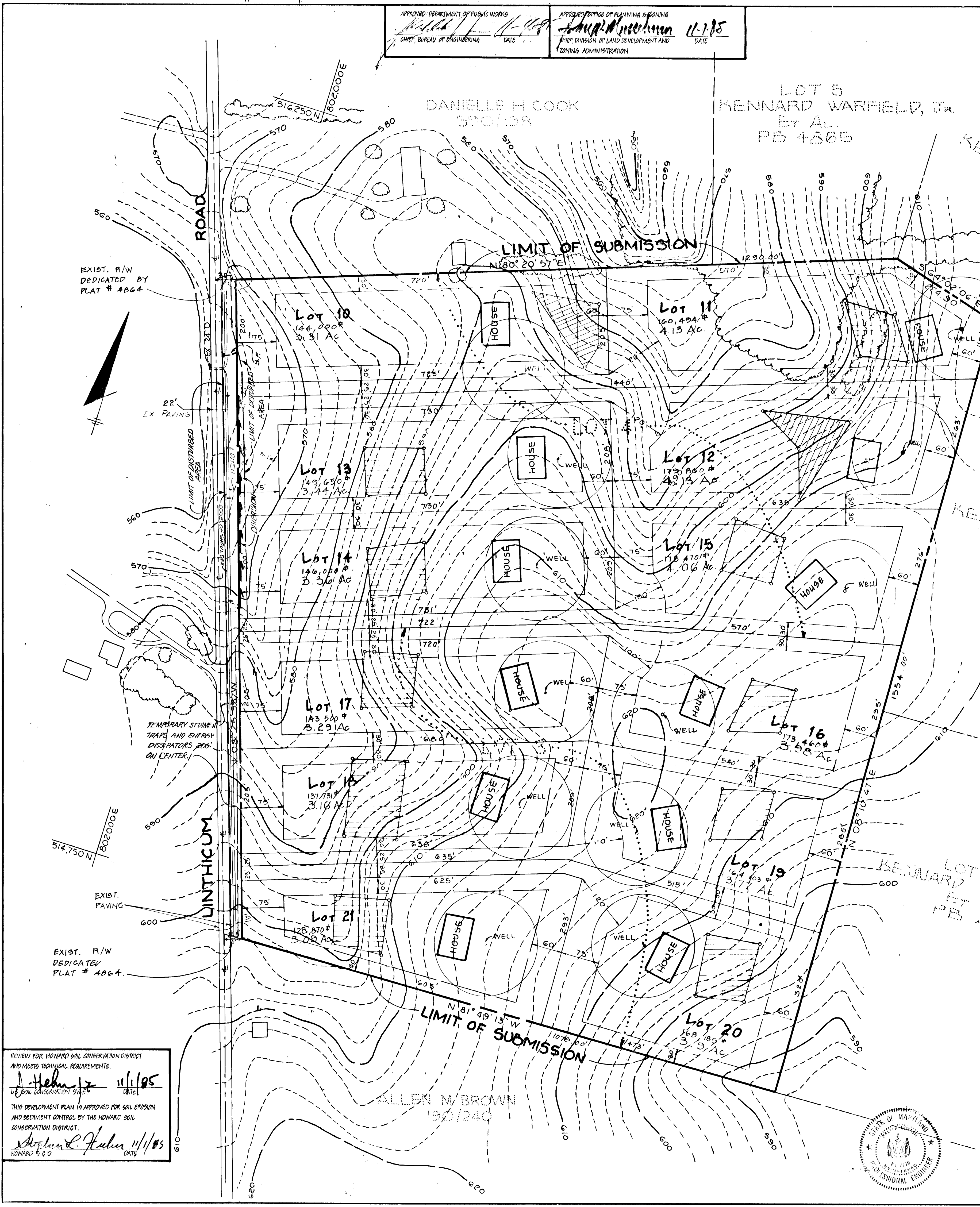


REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. Hehn 11/1/85
 CHIEF, SOIL CONSERVATION DIV.

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

Stephen L. Fahn 11/1/85
 HOWARD S.C.D.



PERMANENT SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform 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. Harrow 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 60 lbs per acre (1.6 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs 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) see note. 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 (10 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft 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 reseedings.

IMPORTANT SEEDING NOTES

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

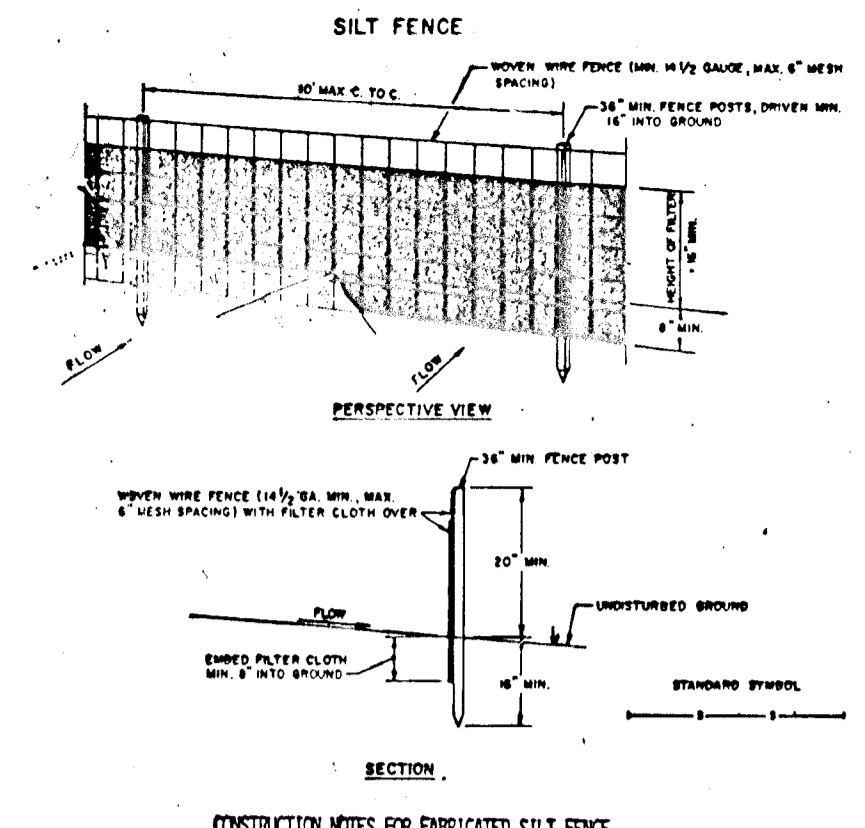
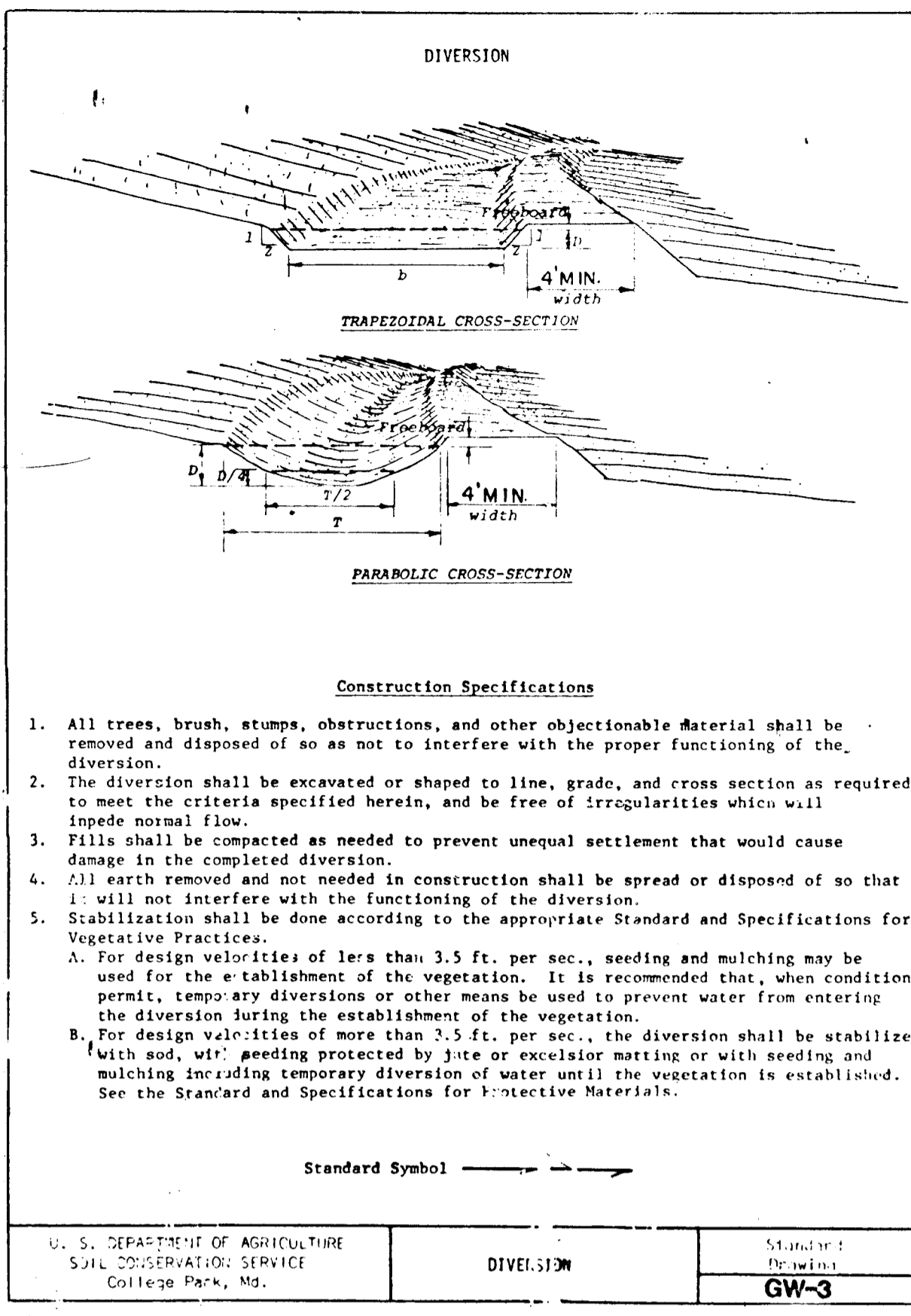
Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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 20 lbs 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 (10 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

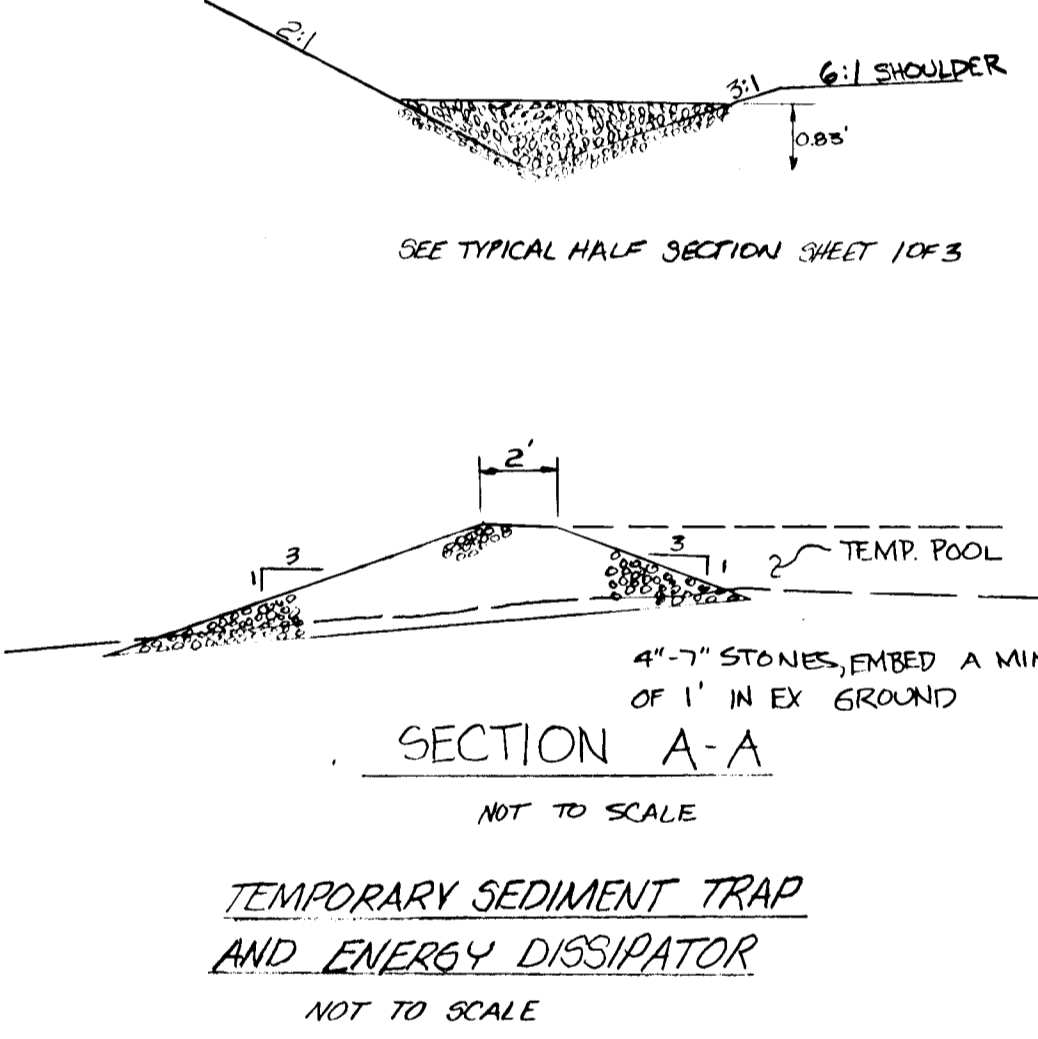
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior 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 are to be in conformance 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: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all 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. 11, 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. 31) and (Sec. 34), temporary seedings (Sec. 50) and mulching (Sec. 32). Temporary stabilization with mulch alone can only be done when recommended seeding dates 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 the Howard County Sediment Control Inspector permits their removal.
- 7) Site Analysis:

Total Area of Site	3.16 Acres
Area Disturbed	2.16 Acres
Area to be seeded or paved	2.16 Acres
Area to be vegetatively stabilized	2.16 Acres
Total Cut	0.00 cu. yds.
Total Fill	0.00 cu. yds.
Off-site waste/borrow area location	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 controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 10) On all areas 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 the initial approval by the inspection agency is made.



AS-BUILT SURVEY CERTIFIED
BY Charles Covo F.E. 13204
July 14, 1988

DEVELOPER'S CERTIFICATE

I 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

DEVELOPER: *Kennard Carfield, Jr.* DATE: 7/17/85

ENGINEER'S CERTIFICATE

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

ENGINEER: *Walter P. Pook* DATE: 10-25-85

TITLE	DETAILS		
PROJECT	PIEASANT LANDING		
LOCATION	FIFTH ELECTION DISTRICT HOWARD CO., MD.		
SCALE:	DESIGNED BY: JUB	DRAWN BY: B.G.	CHECKED BY: DATE: AUG 1985
FIELD BOOK:	PAGE NO.:	JOB NO.:	DRAWING NO.:
		85007	3 of 3

OWNER/DEVELOPER:
KENNARD WARFIELD, JR.
14419 TRIADELPHIA ROAD
GLENELG, MD. 21737

boender associates inc.
consulting engineers
land surveyors
land planners

COURTHOUSE SQUARE
3565 ELLICOTT CITY, MD. 21043
3011 465-7777

DIVISION DATA		APPROVAL: DEPARTMENT OF PUBLIC WORKS		APPROVAL: OFFICE OF PLANNING & ZONING	
DA	Q	K	H	T	D
221AC	210CG	30	24	15	1
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.		THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.		DATE: 11/18/85	
DATE: 11/18/85		DATE: 11/18/85		DATE: 11/18/85	

