

INTERSTATE - 70 TO BALTIMORE (5.R.G. R/W PLAT NO. 41000) E RO 7 ************* VICINITY MAP GENERAL NOTES I. TAX MAP: 15 , BLOCK: II ; PARCEL: 14 2 DEED REFERENCE: 1001/476 9. Existing coning : K 4. PRNATE WATER AND PRIVATE SEWERAGE TO BE UTILIZED. 5. MINIMUM LOT BIZE : 3 ACRES 6. TOTAL NO. OF LOTS . O 7. TOTAL AREA OF LOTS : \$0.00 AC. B TOTAL AREA OF ROAD DOOLATION: 0.50AC. O. TOTAL AREA OF SITE : \$1.50 AC 10 SECTIMENT CONTROL MEASURES TO BE PROVIDED ON FINAL ROAD CONSTRUCTION PLANS. 11. VERTICAL DATUM BASED ON HOWARD COUNTY 1"= 200" IL BOUNDARY SHOWN HEREON IS BASED ON THE MARKAND STATE PLANE THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WITH AND LOTS DIF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC GENAGE 19 AVAILABLE THESE BASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC VARIANCES FOR ENCROSCHMENTS INTO THE PRIVATE SEVINGE EASEMENT RECORDATION OF A MODIFIED SEWASE CASEMENT SHALL NOT BE NECESSARY ALL PERCOLATION TEST HOLES SHOWN HERCON HAVE BEEN FIELD LOCATED AND SHOWN 3.80 AG/= PERCOLATION TEST DATA LOT NO AVERAGE PERC TIME IN MIN MAX. DEPTH PERMITTED FOR EFFLUENT PIPE TO ENTER. for 2 no inch GEWAGE DIGIDOAL AREA AT ITS HIGHEST GUEV. WITH RBF TO BY ARADE AT TIME OF TEST 3 MIN. 4' APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMB, HOWARD COUNTY MEALTH DEPARTMENT 3.3.86 DATE - PROP. 15" DR. D' SR C SERVICE DRIVE - LEX 24 PAVING R.C. PLAT NO. 41680 DEVELOPER'S CERTIFICATE VERNON W. SHIPL Y CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS HERBERT H GROSS OWNER & CEVELOPER PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RE-989 | 592 SPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE BROOKE USE FAMILY PROPERTY, INC. F ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR 19896 GEORGIA AVENUE HE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO WHEATON, MARYLAND 2000G AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT Tel : 985 - 7000 APPROVED: DEPARTMENT OF PUBLIC WORKS CUPYE DATA TITLE: DRAINAGE AREA MAP REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL CHIEF, BUREAU OF ENGINEERING DATE boender associates CLOVER HILL COURT STA 0+00 TO STA 1+40 GLOVER HILL FARMS ENGINEER'S CERTIFICATE consulting engineers LOCATION: TAX MAP: 15 DARCEL: 14 ; 0.P.42. FILE NOS. 5-81-21, VP-81-30 CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL ND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT AS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION land surveyors HOWARD' APPROVED: OFFICE OF PLANNING AND ZONING THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. land planners COURTHOUSE SOUARE 3565 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD 21043 O.R. /W.N. MARCH 1986 CHIEF, DIVISION OF LAND DEVELOPMENT DATE FIELD BOOK: PAGE NO.: JOB NO.: DRAWING NO. AND ZONING ADMINISTRATION 2 **a** F 3 (301) 465-7777 F-86-180 AS-BUILT 12-17-86

SEDIMENT CONTROL PLAN & STA 13+12.07 SERVICE ROAD (CONSTRUCTION &) 12"W ×10'L RIPRAP . & STA 0+00 CLOVER HILLS DRIVE 80.00%, 4"-6" STONES

PERMANENT SEEDING NOTES Apply to graded or cleared areas not subject to immediate further disturbance where

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

per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).

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

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.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thre 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) Use sod. Option (3) Seed with 60 lbs/

Mulching - Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain

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)

TEMPORARY SEEDING NOTES

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other

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

well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual rye (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 ther period November 16 thru February 28, protect site by applying 2 tons per acre of

anchoring tool or 218 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 aq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT

CONTROL for rate and methods not covered.

Mulching: Apply 14 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

straw immediately after seeding. Anchor mulch immediately after application using

<u>Matinenance</u> - Inspect all seeded areas and make needed repairs, replacements and reseedings.

acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw

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

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft)

SEDIMENT TRAP SCHEDULE

546.0

CONSTRUCTION SEQUENCE

. Obtain Grading Permit.

--- PROVICE TEMPORARY END TO 15"DRAIN 55 FT. COWNSTREAM OF I-I

DURING THE TIME SEDIMENT TRAP NO. 1 15 BEING UTILIZED, INV. 15" ORAIN = 553.7"

BOT. ELEV. SPILLWAY ELEV. TOP OF EMBANKMENT CLEANOUT ELEV. SPILLWAY LENGTH SPILLWAY DEPTH REMARKS

2. Notify the Howard County Bureau of Licences, Inspections and Permits and the Construction Inspections/Surveys Division at 792-7272 at least 24 hours prior to beginning grading operations.

TRAP NO. 1 S.C.E. AND S.B.D. 4. CONSTRUCT THE STORM DRAIN SYSTEM FROM I-1 DOWNSTREAM FOR 55 FEET

TO A TEMPORARY END DRAINING INTO THE SEDIMENT TRAP, 5. CLEAR AS NECESSARY AND GRADE FOR ROAD CONSTRUCTION. PAVE ROAD. INSTALL DRIVEWAY CULVERTS

6 VEGETATIVELY STABILIZE ALL DISTURBED AREAS CONTRIBUTING RUNOFF TO I 1. 7. FLUSH OUT THE STORM DRAIN SYSTEM. GRADE AS NECESSARY AND CONSTRUCT THE REMAINDER OF THE STORM DRAIN SYSTEM TO THE PERMANENT OUTFALL

VEGETATIVELY STAPILIZE ALL DISTURBED AREAS. O. REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING

3. CLEAR AND GRUB FOR SECLIMENT CONTROL DEVICES CONSTRUCT SECLIMENT

B. WITH THE GRADING INSPECTORS APPROVAL, FILL IN THE SEDIMENT TRAP AND

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and

EROSION AND SEDIMENT CONTROL.

areas on the project site.

Control Inspector.

Total Cut Total Fill

control inspector.

Total Area of Site

Area to be roofed or paved

Offsite waste/borrow area location

repaired on the same day of disturbance.

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be

9) Additional sediment controls must be provided, if

10) On all sites with disturbed areas in excess of 2

approval by the inspection agency is made.

deemed necessary by the Howard County DPW sediment

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

Area Disturbed

7) Site Analysis:

Permits prior to the start of any construction.

2) All vegetative and structural practices are to be

3) Following initial soil disturbance or

installed according to the provisions of this plan

and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

redisturbance, permanent or temporary stabilization

shall be completed within: a) 7 calendar days for

all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,

b) 14 days as to all other disturbed or graded

accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

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 dates do not allow for

place and are to be maintained in operative

condition until permission for their removal has been obtained from the Howard County Sediment

Area to be vegetatively stabilized 0.9 Acres

Acres

Acres

proper germination and establishment of grasses.

6) All sediment control structures are to remain in

4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in

5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

1 WEEK 1 WEEK

YACL

2 WEEKS

SWALE FLOW COMPS & TYPICAL SECTION VERT :1"-5

EX.6K-7 A= 2 ... W . . . 3/6 4:0, 1565 R42.0503

S= 0.9 5/2 : 3.10 V= 1.494) 402) (0.10) = 2.1356 4/ CAP. Q = 48 CT' > 48 THE SPREM: 6.0'

STONE OUTLET SEDIMENT TRAP Y

OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprep 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. 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.

CROSS SECTION A-A

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 of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the riprap.

5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to is the design depth of the trap.

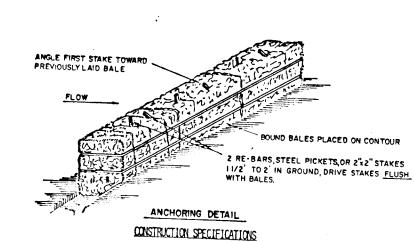
6. The structure shall be inspected after each rain and repairs made as needed. 7. Construction operations shall be carried out in such a manner than erosion and water

The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STRUCTURE SCHEDULE

554.00 553.95 500 560.05 HO.CO. STO DET. SD 4.12 SWALF IN ET 551.55 40.00. STU DET. 69.12 56-4 552.95 5644 554.55 40,00. STD DET. SO 5.52 5.11.17 561.05 562.5 562.39 HO. CO. STO. DET. SD 5.61 5-2 METAL END ACTION 5628 562.95 " " " S-5 MEDIL ENDRECTION - 561.51 561.43 562.05 44 563.10 " " " 9-4 METAL ENDSECTION 563,3 563.99 " " " B.E METAL ENDSECTUN SUBJES 562.95

STRAW BALE DIKE BEDDING DETAIL



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, AND PLACED SO THE BINDINGS ARE HORIZONTAL.

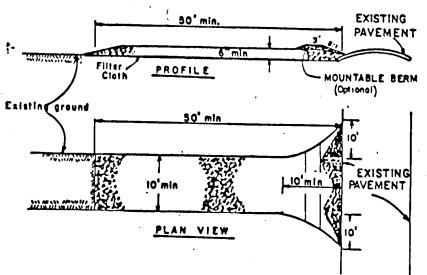
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. HE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL PEDRIVEN FLUSH WITH THE BALE.

4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL SCE



CONSTRUCTION SPECIFICATIONS 2. Stone Size - Use 2° stone, or reclaimed or recycled concrete equivalent.

.. Length - As required, but not less than 50 feet (except on a single residence lot where a 10 foot minimum length would apply). Thickness - Not less than six (6) inches.

4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.

5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot. 6. Surface Mater - All surface water flowing or diverted toward construction

entrances shall be piped across the entrance. If piping is impractical, a mountable berm 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 dressing with additional stone as conditions demand

and repair and/or cleanout of any measures 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

9. Periodic inspection and needed maintenance shall be provided after each rain.

565 I & CLOVER HILL DRIVE HYDRAUUC GRADIENT -- MINIMUM I'THICK 553.34 553.95 553,24 15" KYF OLIY, BEDPING'C' 553.04'-10 LF 4"-6" STONES 12'WIDE CO.DO % OVER EROSION @ 0.40% CONTROL CLOTH 1p = 4.03 f/s Q = 4.20 CF9 15"ROCP CLIV BEPPING'C' € 0.60 % Vp = 4.03 f/s, Q = 4.20 CFS

STORM DRAIN PROFILE

OWNER / DEVELOPER

BROOKE LEE FAMILY PROPERTY, INC.

DRAWING NO. :

3 OF 3

13838 GEORGIA AVE.

SCALES: HOR: |"=50' VERTICLE: |"=5'

DEVELOPER'S CERTIFICATE

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 RE-SPONSIBLE 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

ENGINEER'S CERTIFICATE

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

Water Hovas 2



WHEATON, MD. 20906 585-7000

DETAILS, SEDIMENT CONTROL & STORM DRAIN PROFILES CLOVER HILL FARMS LOCATION: TAX MAP: 15 . PARCEL H ; OPZ FILE NOS. : 5-86-26; VP-86-3 ELECTION DISTRICT HOWARD P-86-35 CO., MD DESIGNED BY: DRAWN BY: CHECKED BY: DATE: AS NOTEO JTN JTN W.N. /D.R. MARCH 1986

boender associates

land surveyors land planners COURTHOUSE SQUARE 3565 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD. 21043

consulting engineers

[301] 465-7777

AS-BUILT 12-17-86

JOB NO.:

85285

F-84-180

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS. U.S. SOIL CONSERVATION SERVICE THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL/CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS Wiesenin & (12. a.y) CHIEF, BUREAU OF ENGINEERING

OFFICE OF PLANNING AND ZONING

AND ZONING ADMINISTRATION

OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY

PAGE NO. FIELD BOOK: