SANITARY MANHOLE STAKEOUT TABLE POLE VAULT/ COORDINATES ITEM NORTHING EASTING 563664.968 1332113.241 MH #1 563770.261 1332053.622 MH #2 564029.243 1332050.591 MH #3 564272.408 1331894.413 MH #4 564634.373 1334567.870 MH #5 MH #6 564591.923 1334502.247 THE BOARD OF EDUCATION OF HOWARD COUNTY, MD. "COLUMBIA, VILLAGE OF RIVER HILL, S.3, A.1, LOT 2" PLAT M.D.R. 11187 WESTERN HIGH SCHOOL" 24" RCP-POND SHA PLAT #10426 4Ő RAVERSE BASELINE OF SURVEY SD\_MH PROPOSED 20 FOOT WID L.O.D. SEWER & UTILITY EASEMENT PROP. 8" SAN SEWER PROPOSED 20 FORT WIDE SEWER & UTILITY EASEMENT AKS-474.23 141 B/A COND-01 " 246 GAS #264173/PED 8<sup>4</sup>10<sup>4</sup>0<sup>1</sup> JNDERGROUND) IU 7 "3", SEPTIC COVERO CO. 1631 510.62 ′4ő <sup>ч</sup> CONTRACTOR SHALL ENCE ζ20"} · ELEC. . REMOVE AND СO° COND. H PIPE 474.21-DISPOSE OF EX. BUSH BGE D JTILITY POLE--LUTFI'S INTERNATIONAL #900559 COSTS TO BE HAIR DESIGN SIGN INCLUDED IN THE M ∘C/O UNIT PRICE BID ≠12153×-PER LINEAR FOOT -----¥ SHIFTED MACADAM FOR FURNISHING APROX 1.0'LT. TO AVOID EXCAVATION AND PLACING 8 INCH DF PROPERTY LINE SANITARY SEWER MAIN. B.F. =484.97 OWELL 00 GARAGE BETTY M. HILL & JANICE LEE HILL L.2503 F.304 CONC. PAD HOUSE F=484.51 BF=476.5 SURVEY CONTROL 3.M. #1 - HOWARD COUNTY SURVEY CONTROL NO. 35A2 LUTFI ON F.357 -SHA PLAT #793 STAMPED DISC SET IN CONCRETE ON WEST SIDE OF RTE L.2487 108, APPROX. 2.8' WEST OF EDGE OF PAVING, 47.2' NORTH OF BGE POLE #370902 AND APPROX. 214.5 SOUTH OF C.L. OF SHEPPARD LANE. ELEV. 488.64 N 564,154.8000 E 1,331,201.1120 B.M.#2 - HOWARD COUNTY SURVEY CONTROL NO. 34BB -STAMPED DISC SET IN CONC. 1.3' EAST OF EDGE OF PAVING - RTE. 108. 112' N. OF BGE POLE #531720 & 15' SOUTH OF PC OF GREAT STAR DRIVE. 133760-N 564154.41488 ELEV. 485.27 E 1329641.93214 490 B/A COND. -(APPROX. LOC.)  $\left( \begin{array}{c} MH \\ 4 \end{array} \right)$ MH 4″ GAS (APPROX: LOC: -CATY - - ABANDONED (2) (APPROX. ASPER COMCAST #12153 BF EL.=484.97 ELEC. CO (APPROX. LOC.) #12143 ||FF EL=484.5 DIRECTLY L.P. BELOW GAS COMD. 180 LIMITS OF FLOWABL BACKFILL (FLO-ASH PROP. 8"SAN. 4″ SAN HSE. CONN 473.93 FORM CHANNEL 0.50% PROP. 8" SAN @ 0.50% TO FLOW. SEE ST'D. DET. G5.32. PLAN G'. 473.59 `∽-473.21 - 471.91 471.83 Sa IDR. 8-2-00 .47% 751 EL DEVELOPER'S CERTIFICATION: ENGINEER'S CERTIFICATION: HIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL 

EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL

SOIL CONSERVATION DESTRICT.
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL

APPROVED, HOWARD COUNTY S.C.D.
DATE
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION PROJECT WILL HAVE
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL

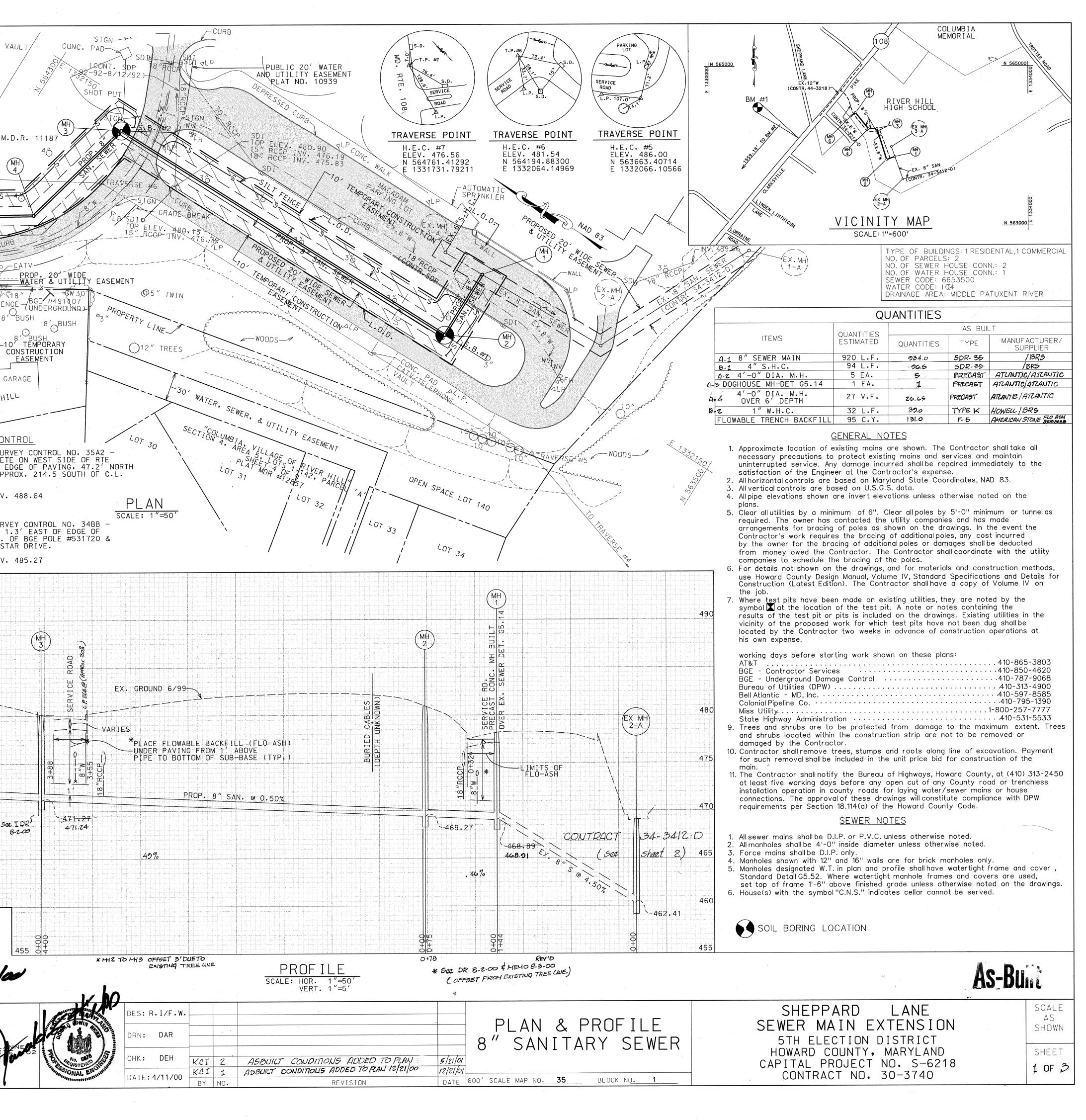
REVIEWED FOR HOWARD COUNTY S.C.D.
DATE
DATE
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION PROJECT."

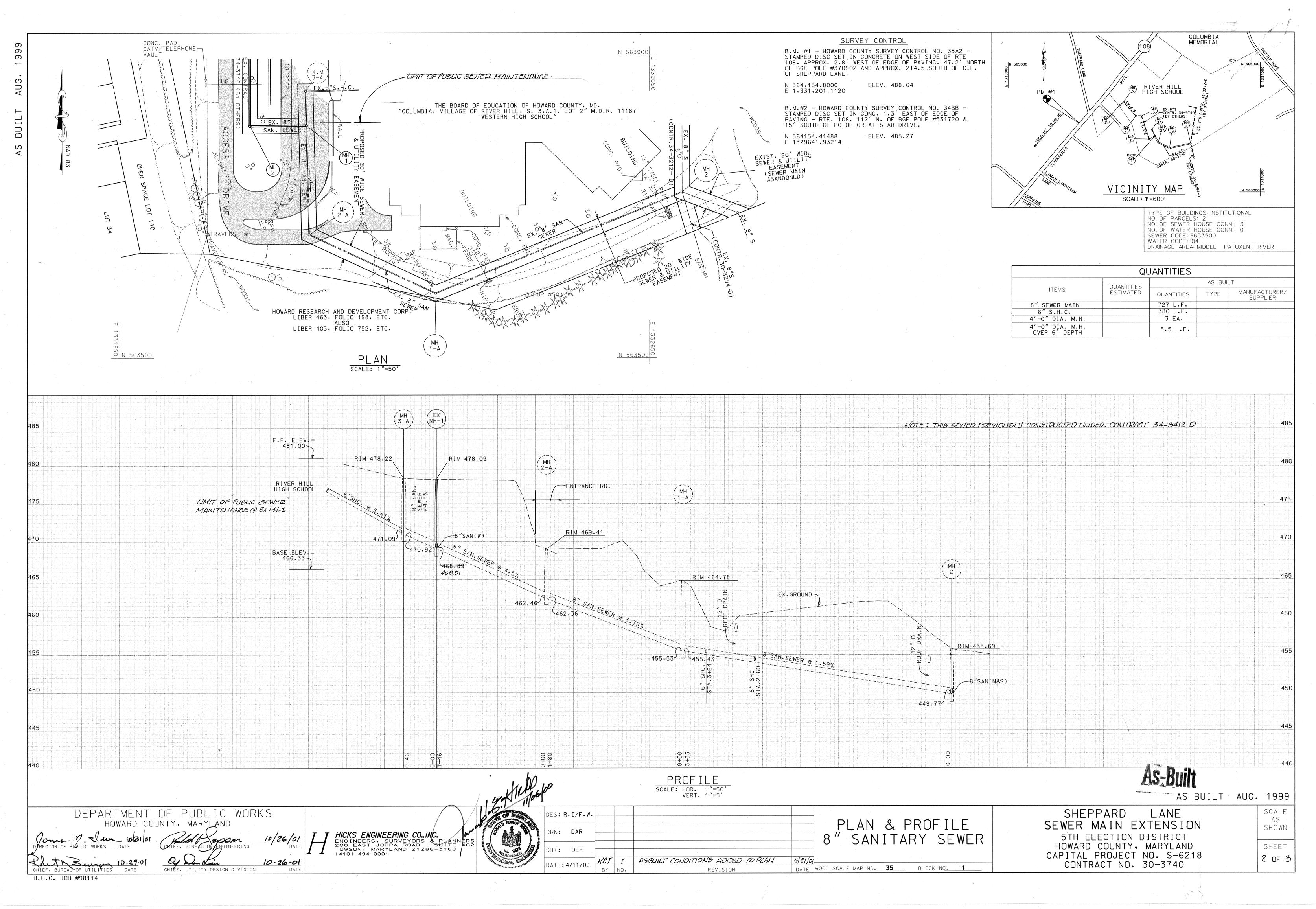
No. NATURA RESOURCES CONSERVATION SERVICE
DATE
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL

MAPPROVED, HOWARD COUNTY S.C.D.
DATE
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION PROJECT."
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL
CONSTRUCTION PROJECT."

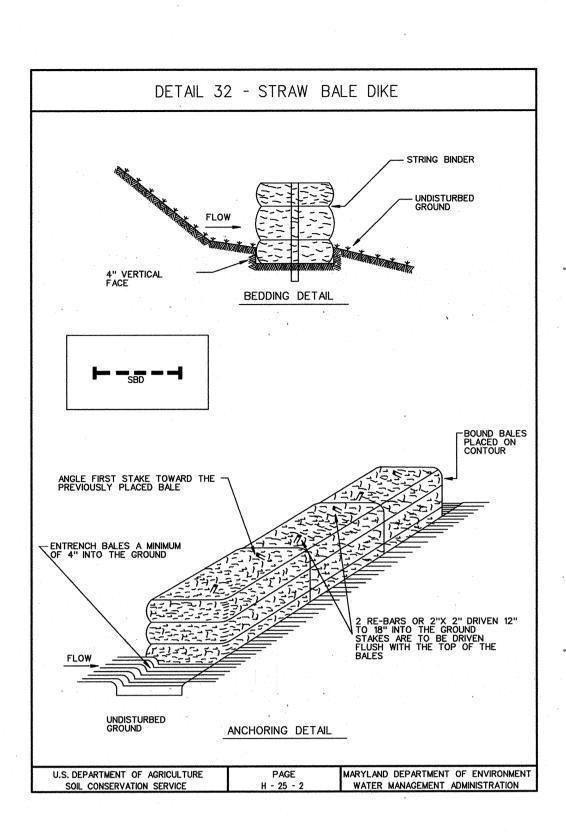
NEVIEWED FOR HOWARD COUNTY S.C.D.
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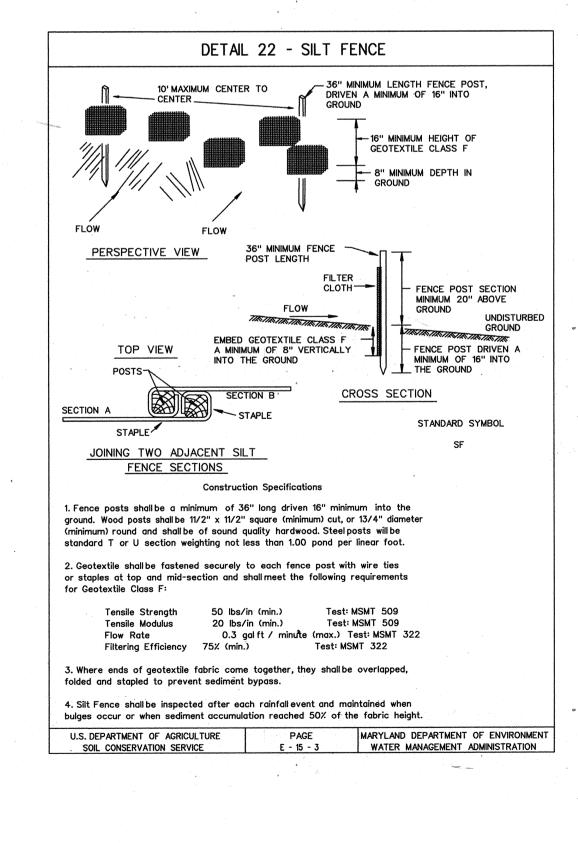
U.S. NATURA RESOURCES CONSERVATION SERVICE
DATE
 CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HICKS ENGINEERING CO 60 Lepon 4/12/00 ENGINEERS, SURVEYORS & 200 EAST JOPPA ROAD -TOWSON, MARYLAND 21286 (410) 494-0001 4-12-00 Oy Don ieu H.E.C. JOB #98114



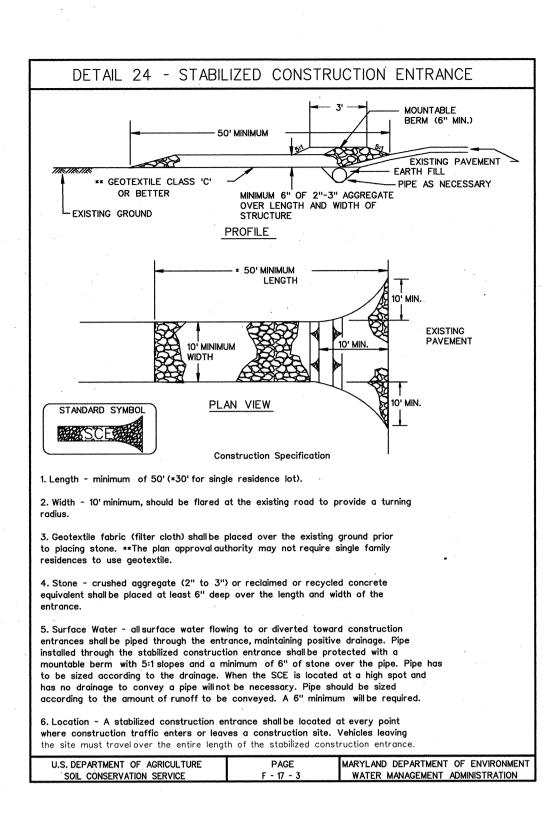


ONE DAY





DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING 4/12/00 DATE	HICKS ENGINEERING CO., INC. ENGINEERS, SURVEYORS & PLANN 200 EAST JOPPA FOAD - SUITT TOWSON, MARYLAND 2126-3160
CHIEF, BUREAU OF UTILITIES DATE CHIEF, UTILITY DESIGN DIVISION DATE	<b>I</b> (410) 494-0001
H.E.C. JOB #98114	



	SEQUENCE OF CONSTRUCTION	TIME OF COMF	<u>'LE</u>
1.	OBTAIN A GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS.	0.5 WEEKS	3
2.	CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION (313-1880) PRIOR TO STARTING DATE.	0.5 WEEK	5
3.	INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV.	0.5 WEEKS	5
4.	EXCAVATE AND INSTALL PROPOSED 8" SEWER MAIN.	3.0 WEEKS	5
5.	RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD	2.0 WEEK	5

COUNTY STANDARDS. 6. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT 0.5 WEEKS CONTROL DEVICES. 0.5 WEEKS 7. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.

## RESTORATION SCHEDULE - 8" SANITARY & 1 ″ W.H.C. LOCATION MH 1 TO MH 2 LENGTH TYPE 32' STA 0+00 TO STA 0+32 PAVING 431 SEED & MULCH STA 0+32 TO STA 0+75 MH 2 TO MH 3 355′ STA 0+00 TO STA 3+55 SEED & MULCH 30' PAVING STA 3+55 TO STA 3+85 15′ SEED & MULCH STA 3+85 TO STA 4+00 MH 3 TO MH 4 127' STA 0+00 TO STA 1+27 SEED & MULCH MH 4 TO MH 5 260' SEED & MULCH STA 0+00 TO STA 2+55 MH 5 TO MH 6 12′ STA 0+00 TO STA 0+12 SEED & MULCH 28′ PAVING STA 0+12 TO STA 40+00 351 SEED & MULCH STA 0+40 TO STA 0+75 4" S.H.C. 65′ STA 0+00 TO STA 0+65 SEED & MULCH 25′ PAVING STA 0+65 TO STA 0+90 1″ W.H.C. STA 0+00 TO STA 0+05 PAVING 28′ SEED & MULCH STA 0+05 TO STA 0+33 <u>4" S.H.C.</u> MH 6 TO STA 0+14 12' SEED & MULCH

BY NO. REVISION

COMPLETE

EACH DAY. IMMEDIATELY.

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING AND MULCHING, TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

7. SITE ANALYSIS TOTAL

> AREA AREA TOTAL TOTAL OFFSITE WASTE/BORROW AREA LOCATION-TO BE DETERMINED BY THE CONTRACTOR.

DISTURBANCE.

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.

SCHEDULES:

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 (1.4 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 (.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 1.5 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.

AND RESEEDINGS.

DES: R. I/F.W. RN: CHK: DEH DATE: 4/11/00

DAR

DATE 600' SCALE MAP NO. 35

## UTILITY NOTES

1. OPEN DAILY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED

2. PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH. 3. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855). 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 1994 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 SLOPES GREATER THAN 3:1, B) 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.

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.

E ANALYSIS:		
TOTAL AREA OF SITE	N/A	ACRES
AREA DISTURBED	0.11	ACRES
AREA TO BE ROOFED OR PAVED	0.01	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.10	ACRES
TOTAL CUT-TRENCH	1,900	CU. YDS.
TOTAL FILL		CU. YDS.

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF

9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

## PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

<u>SEEDBED PREPARATION:</u> LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING

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. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS. REPLACEMENTS

