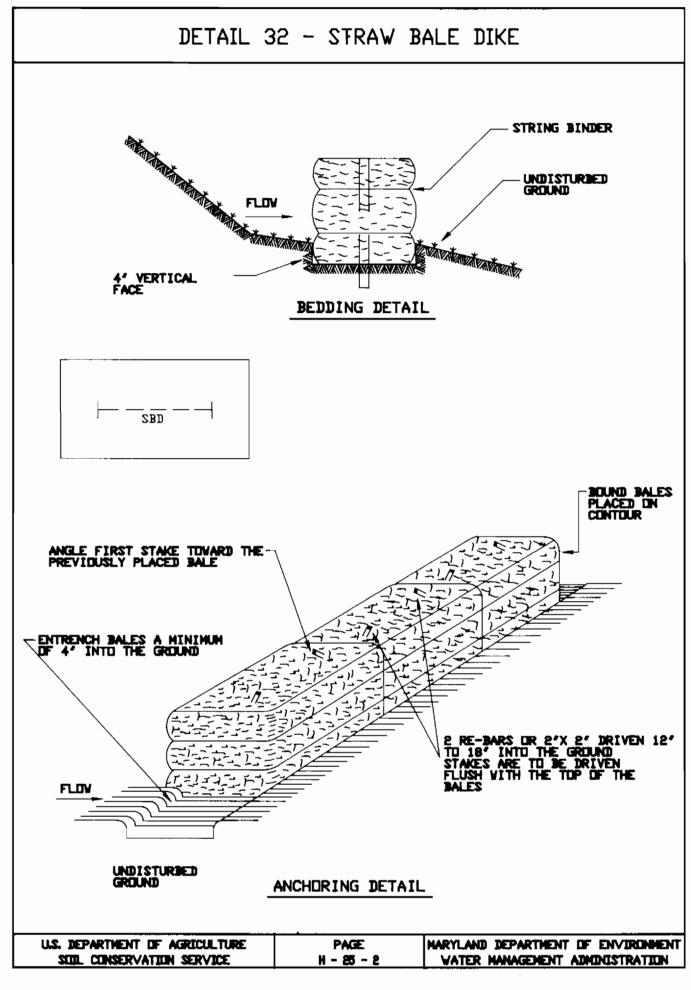


E - 15 - 3

MARYLAND DEPARTMENT OF ENVIRONMENT

VATER HANAGEMENT ADMINISTRATION



STRAW BALE DIKE Construction Specifications 1. Bales shall be placed at the toe of a slope, on the contour, and in a row with the ends of each bale tightly abutting the adjacent bales. 2. Each bale shall be entrenched in the soil a minimum of 4" 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 12' to 18' into the ground. 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 top of the 4. Straw bale dikes shall be inspected frequently and after each rain event and maintenance performed as necessary. 5. All bales shall be removed when the site has been stabilized. The trench where the bales were located shall be graded flush and stabilized. MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE WATER MANAGEMENT ADMINISTRATION SUIL CONSERVATION SERVICE H - 25 - 2A

SEQUENCE OF CONSTRUCTION

TIME TO COMPLETE

WELL ANCHORED STRAW.

1. DBTAIN A GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, 0.5 WEEK AND PERMITS. 2. CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION (313-1880) PRIOR TO 0.5 WEEK STARTING DATE. 3, INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD 1.0 WEEK COUNTY DESIGN MANUAL VOL. 1V.

2.0 WEEKS 4. EXCAVATE AND INSTALL PROPOSED 8' SEWER MAIN AND 4' FORCE MAIN. 5. RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD 1.0 WEEK COUNTY STANDARDS.

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

UTILITY NOTES

- 1.) DPEN DNLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY.
- PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

SEDIMENT CONTROL NOTES

- 1.) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION PRIDE 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 ARDUND 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMP-DRARY SEEDING AND MULCHING. TEMPORARY STABILIZATION WITH MULCH ALONE CAN DNLY 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 □PERATI∨E C□NDITION UNTIL PERMISSION FOR THEIR REMO∨AL HAS BEEN DBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7.) SITE ANALYSIS: TOTAL AREA OF SITE AREA DISTURBED 0.26 ACRES± AREA TO BE ROOFED OR PAVED O.OI ACRES± AREA TO BE VEGETATIVELY STABILIZED 0.25 ACRES± TOTAL CUT 700 CU, YDS TOTAL FILL 700 CU, YDS.
- OFFSITE WASTE/BORROW AREA LOCATION-TO BE DETERMINED BY THE CONTRACTOR. 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 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.

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: LODSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SDIL AMENDMENTS: IN LIEU OF SDIL TEST RECOMMENDATIONS, USE DNE 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
- DF SDIL. AT TIME DF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFDRM 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

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.

(3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE

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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR∠OF PUBLIC WORKS DATE CHIÉF, BURBAU OF UTILITIES CHIEF. WATER & SEWER DESIGN DIV. DATE

SCIL CONSERVATION SERVICE

-HICKS ENGINEERING CO., **I**NC ENGINEERS, SURVEYORS & PLANMERS 200 EAST JOPPA ROAD - SUITE 402 TOWSON, MARYLAND 21286-3160 (410) 494-0001

DRN: L.C. CHK: D.E.H. DATE 600' SCALE MAP NO. REVISION

DETAIL SHEET

BLOCK NO.

LINWOOD ROAD - SEWER EXTENSION 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT S-6696 CONTRACT NO. 10-3565

SCALE AS SHOWN SHEET 2 OF 2

AS-BUILT 12-3-96