

LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
•	SPOT ELEVATION
—	DIRT FENCE
FF	FIRST FLOOR ELEVATION
DE	DEPARTMENT ELEVATION
X	TREE PROTECTION
---	EXISTING TREE LINE
---	UNIT OF DISTURBANCE
L.O.D.	EXISTING STREET TREE

- A. CREDIT FOR SIX EXISTING SHADE TREES
- B. CREDIT FOR TWO EXISTING SHADE TREES
- C. CREDIT FOR TWO EXISTING SHADE TREES
- D. CREDIT FOR FOUR EXISTING SHADE TREES

STREET ADDRESS CHART

NUMBER	STREET ADDRESS
3	3134 THUNDER HILL ROAD

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: Feb. 25, 1998

LANDSCAPE SCHEDULE A

LANDSCAPE EDGE	A	B	C	D
LANDSCAPE TYPE	E	A	A	A
LINEAR FEET OF ROAD FRONTAGE OR PERIMETER	175.12	135.40	175.00	150.00
CREDIT FOR EXISTING VEGETATION	YES	YES	YES	YES
PLANTS REQUIRED				
SHADE TREE	3	3	2	4
EVERGREEN TREE	0	0	0	0
SHRUBS	32	0	0	0
PLANTS PROVIDED				
SHADE TREE	0	1	0	0
EVERGREEN TREE	0	0	0	0
SHRUBS	32	0	0	0

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED PART OF THE GRADING PERMIT IN THE AMOUNT OF \$400 FOR ONE TREE AND 32 SHRUBS.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
410-461-2000

09.04.15 PAVEMENT REPLACEMENT

DATE	REVISION
9-12-05	REV. NEW WALKIN REFRIGERATOR
12-14-99	REV. DUMPSTER AND SIDEWALK LOCATION

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWER.
Joyce M. Boyd 3/24/98
HOWARD COUNTY HEALTH OFFICER MR. DATE

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Charles J. Chonora 1-16-98
Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
Robert C. Bartolo 1-16-98
Signature of Developer (Print name below signature) Date

Reviewed for HOWARD COUNTY and meets Technical Requirements.
Clayton Sumner 3/13/98
U.S.D.A.-Natural Resources Conservation Service Date

This development plan is approved for erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John K. Roberts 3/13/98
Howard SCD Date

OWNER AND DEVELOPER
THUNDER MART CONVENIENCE CENTER
% LANCELOTTA & ASSOCIATES INC.
5052 DORSEY HALL DRIVE, SUITE 202
ELICOTT CITY, MARYLAND 21042

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blair 4/1/98
Director, Department of Planning and Zoning Date

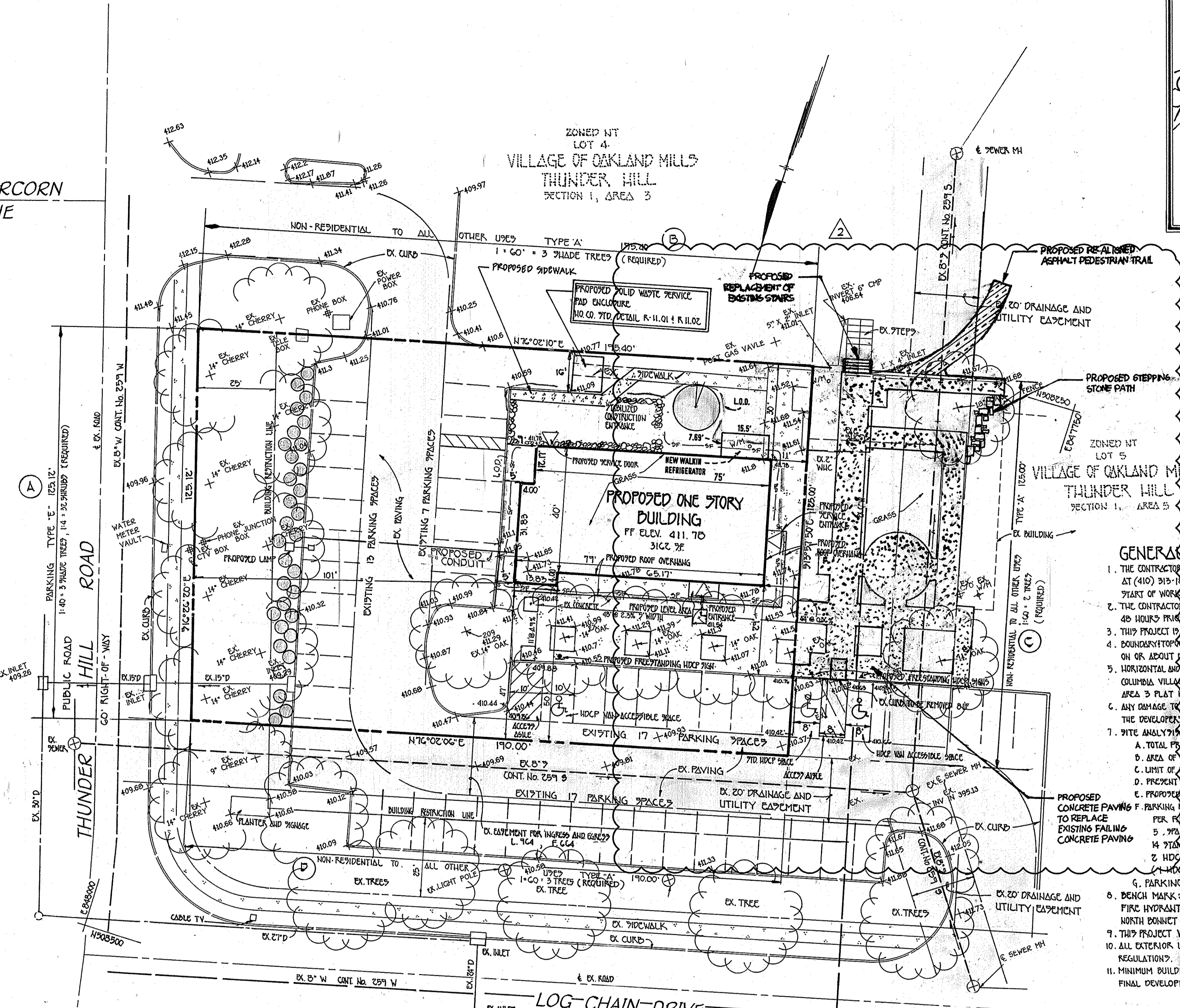
Charles Damann 3/27/98
Chief, Division of Land Development Date

Charles Damann 3/27/98
Chief, Development Engineering Date

SUBDIVISION	THUNDER MART V.O.M.	SECTION/AREA	PARCEL
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE
49597	10	NT	30
WATER CODE	SEWER CODE	ELEC. DIST.	CENSUS TR.
		71X	

SITE DEVELOPMENT PLAN

THUNDER MART
VILLAGE OF OAKLAND MILLS
LOT 3 SECTION 1 AREA 3
THUNDER HILL
TAX MAP No: 30 PARCEL: 372
CITY ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: SHEET 1 OF 2



SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT
- INSTALL SEDIMENT & EROSION CONTROL MEASURES SHOWN ON PLAN (2 DAYS)
- CONSTRUCT BUILDING (90 DAYS)
- FINE GRADE AROUND BUILDING AND SEED MULCH (2 DAYS)
- REMOVE SEDIMENT & EROSION CONTROL MEASURES AS PERMITTED BY GRANTED BY THE SITE INSPECTOR.

NUMBER	SYMBOL	TYPE	SIZE
32	○	EUONYMUS ALATUS COMPACTA DWARF WINGED EUONYMUS	2'-2 1/2' HT.
1	○	QUERCUS PALUSTRIS SOVEREIGN 2 1/2"-3" CAL. SOVEREIGN PIN OAK	

PLAN VIEW
SCALE: 1" = 20'

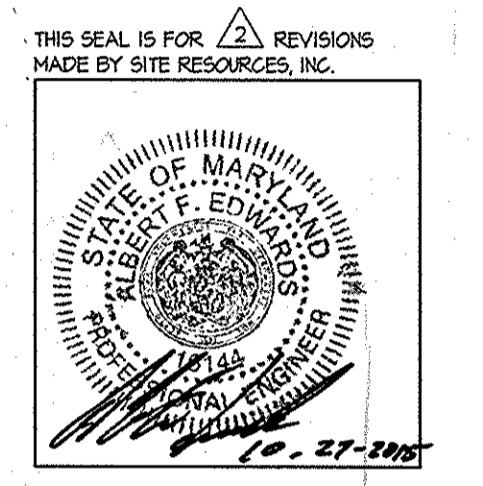
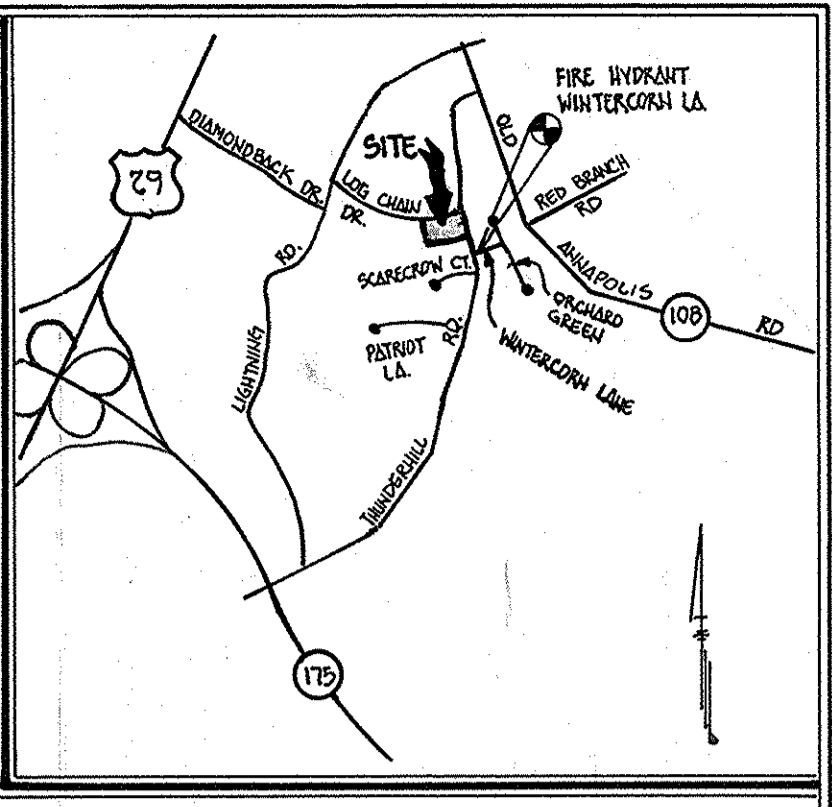
NOTE: EXISTING PAVING WITHIN THE AREA OF THE HDPC PARKING SPACES WILL BE REMOVED AND REPAVED OR SKIN COATED WITH NEW PAVING TO ACHIEVE A MINIMUM OF 2.0% GRADE.

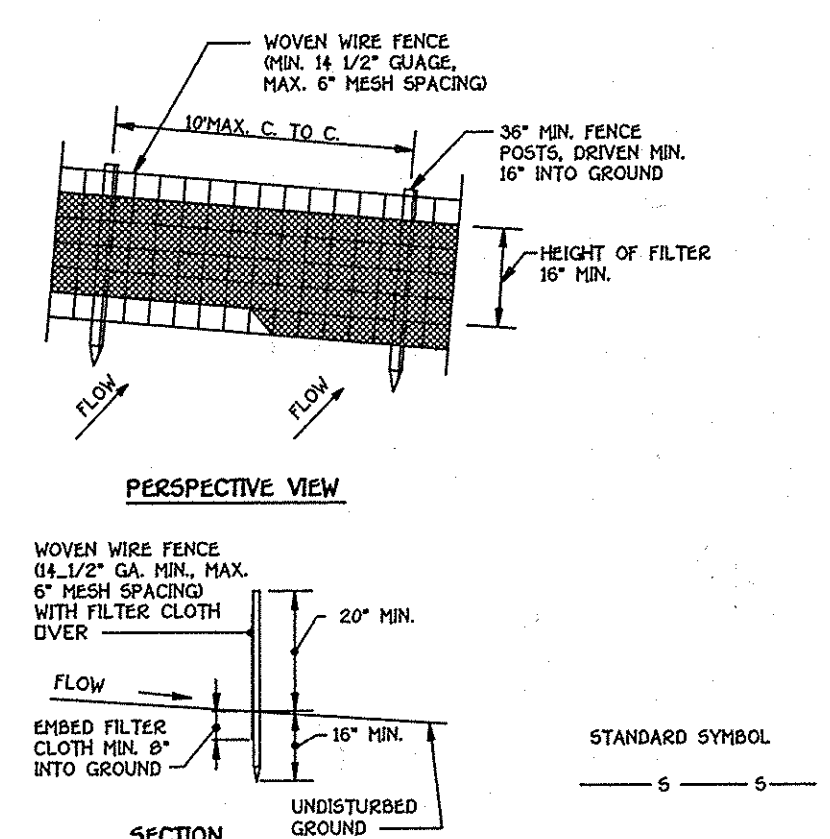
- GENERAL NOTES**
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MAY DAY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F 79-185C
 - BOUNDARY TOPOGRAPHY SURVEY PERFORMED BY: FISHER, COLLINS & CARTER, INC. ON OR ABOUT DECEMBER 1, 1977.
 - HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON FINAL RECORD PLAT: COLUMBIA VILLAGE OF OAKLAND MILLS - THUNDER HILL SECTION 1, AREA 3 PLAT No. 43597
 - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
 - SITE ANALYSIS DATA:
 - A. TOTAL PROJECT AREA: 0.553 AC ±
 - B. AREA OF PLAN SUBMISSION: 0.933 AC ±
 - C. LIMIT OF DISTURBED AREA: 0.227 AC ±
 - D. PRESENT ZONING: NEW TOWN
 - E. PROPOSED USE FOR SITE AND STRUCTURES: RETAIL/COMMERCIAL
 - F. PERIOD OF PAVEMENT TO REPLACE EXISTING FAILING CONCRETE PAVING:
 - 5. SPACES PER 1000 SF - 10 PARKING SPACES (31CZ 7E)
 - 14 STANDARD PARKING SPACES
 - 2 HDPC SPACES
 - 1 HDPC SPACE VAN ACCESS (29C)
 - G. PARKING PROVIDED: (ON SITE) 22
 - BENCH MARK: FIRE HYDRANT: WINTERCORN LANE ELEV. 431.45 NORTH BOUNDARY BOLT OF HYDRANT ON WINTERCORN LANE
 - THIS PROJECT WILL UTILIZE PUBLIC WATER AND SEWER UTILITIES
 - ALL EXTERIOR LIGHTING WILL CONFORM TO SECTION 134 OF THE ZONING REGULATION.
 - MINIMUM BUILDING RESTRICTIONS WILL BE IN ACCORDANCE WITH RECORDED FINAL DEVELOPMENT PLAN PHASE 37 CRITERIA.
 - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 10.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.

SHEET INDEX

SHEET No.	DESCRIPTION
1	PLAN VIEW
2	NOTES & DETAILS

13. THE IMPERVIOUS AREA IS 2,800 SF AND IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT. ANY ADDITIONAL IMPERVIOUS AREA THAT EXCEEDS 5,000 SF WILL BE REQUIRED TO PROVIDE STORMWATER MANAGEMENT.



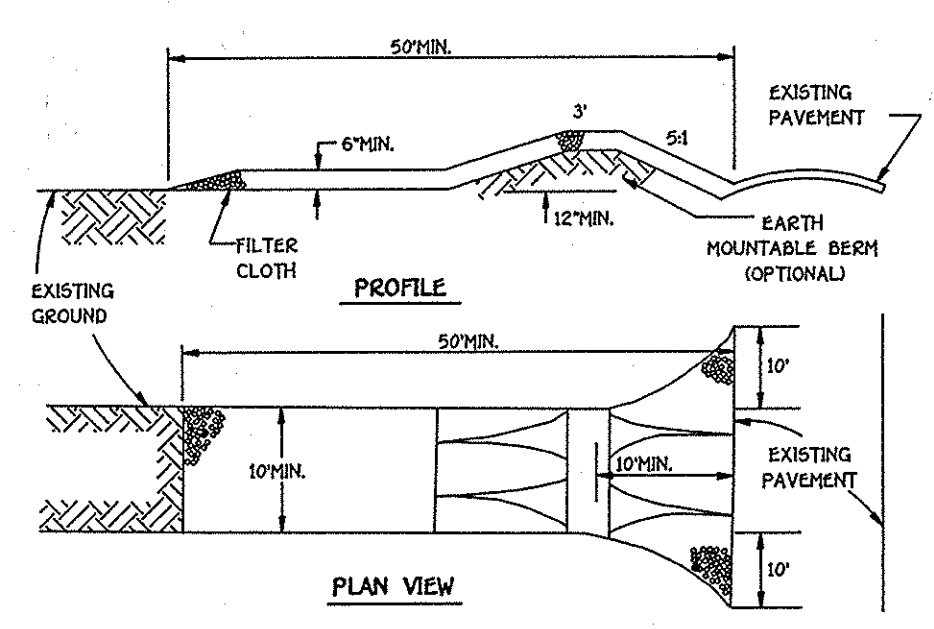


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OF STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "MUDGAS" DEVELOPS IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER 'X', MIRAF 100% STABILIZED TIE ON OR APPROVED EQUAL
UNDISTURBED GROUND
STANDARD SYMBOL

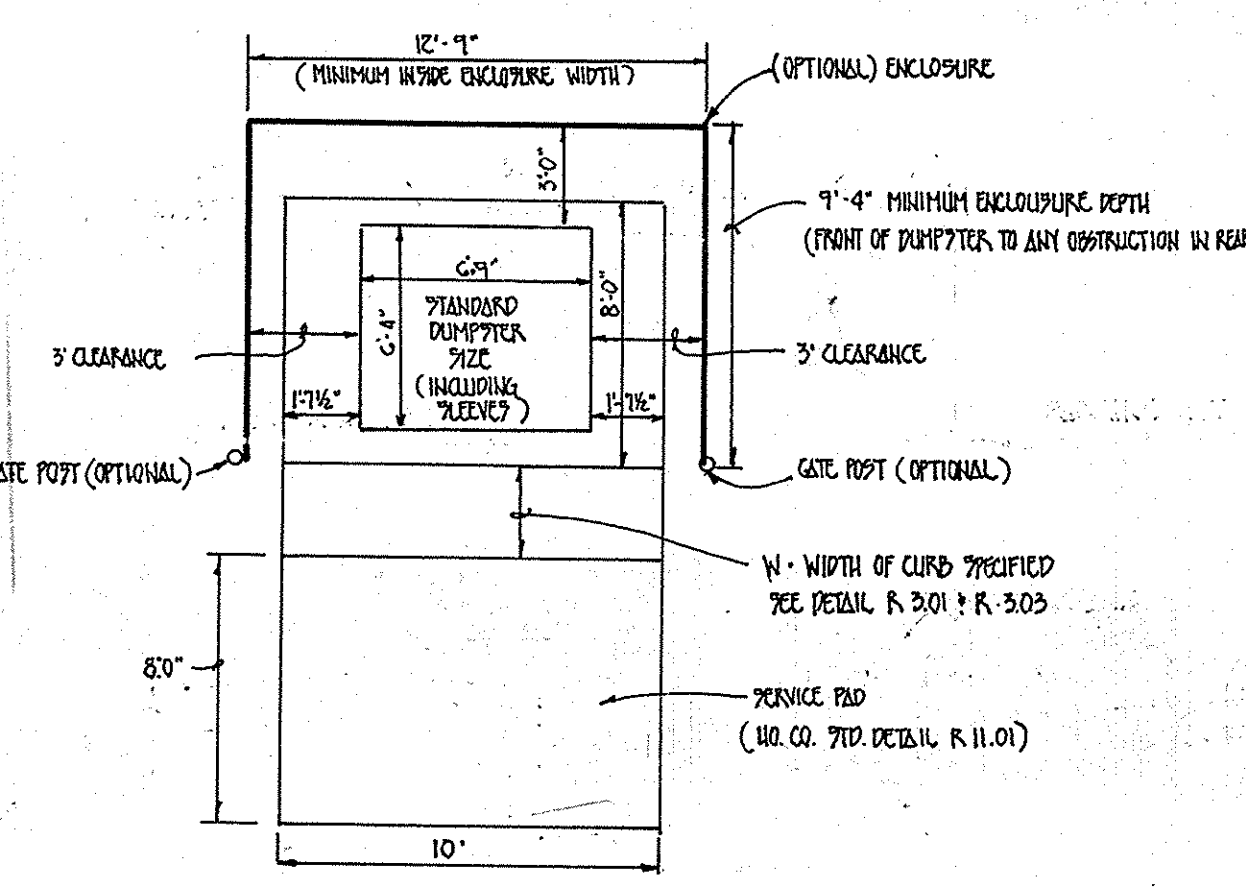
SILT FENCE
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

- 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 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 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.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR INVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 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.
- 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.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE - 2
NOT TO SCALE



SOLID WASTE CONTAINER ENCLOSURE
(HO. CO. STANDARD DETAIL R.1.02)

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE FEB. 25, 1998

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 1972 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
410P-86-2025

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
FOR PUBLIC WATER AND SEWER
James M. Boydland
HOWARD COUNTY HEALTH OFFICER
3/24/98
DATE

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and the plan was prepared in accordance with the requirements of the Howard Soil Conservation District.
Charles J. Cronin Sr.
Signature of Engineer (Print Name Below Signature) Date 3/13/98
DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
Robert Kaulib
Signature of Developer (Print Name Below Signature) Date 3-6-98

Required for HOWARD SCD and meets Technical Requirements.
John E. Johnson
Signature of U.S.D.A.-Natural Resources Conservation Service
Date 3/13/98
This development is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John E. Johnson
Signature of Howard SCD
Date 3/13/98
OWNER / DEVELOPER
THUNDER MART CONVENIENCE CENTER
% LANCLOTIA ASSOCIATES
5052 DORNEY HALL DRIVE, SUITE 202
ELLICOTT CITY, MARYLAND 21042

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blum
Signature of Chief, Division of Land Development
Date 3/27/98
Michael J. ...
Signature of Chief, Development Engineering Division
Date 3/17/98
David ...
Signature of Director - Department of Planning and Zoning
Date 4/1/98
SUBDIVISION
THUNDER MART V.O.M.
SECTION/AREA
1/3
PARCEL
372
PLAT NO.
4359
BLOCK NO.
16
ZONE
NT
TAX/ZONE
30
ELEC. DIST.
91X
CENSUS TR.
91X
WATER CODE
SEWER CODE

SITE DEVELOPMENT PLAN
THUNDER MART
VILLAGE OF OAKLAND MILLS
LOT 3 SECTION 1 AREA 3
THUNDER HILL
TAX MAP NO: 30 PARCEL: 372
ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE:
SHEET 2 OF 2
S.D.P. 98-81

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDBED PREPARATION
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS
APPLY TWO TONS PER ACRE DELOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE 0-20-20 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.) AND 500 LBS. PER ACRE (15 LBS./1000 SQ.FT.) OF 10-20-20 FERTILIZER.

SEEDING
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 500 LBS. OPTION (3) SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.

MULCHING
APPLY 1 TO 2 TONS PER ACRE (90 TO 180 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF ENHANCED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER USE 340 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.
* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROMMVECH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 10 LBS./ACRE AS THE SEEDING REQUIREMENT. OBTAIN SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

PERMANENT SEEDING NOTES

DEFINITION
Using vegetation to cover for barren soil to protect it from forces that cause erosion.

PURPOSE
Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat.

CONDITIONS WHERE PRACTICE APPLIES
This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary soil stabilization, cleared areas, earth ditches, earth fills, and for Permanent Seeding are lawns, dunes, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY
Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff. Infiltration, evaporation, transpiration, percolation and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating these substances present within the root zone. Sediment control devices must remain in place during grading, seeding preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

I. Installation and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.

II. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.

III. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.

IV. Soil Amendment (Fertilizer and Lime Specification)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.

2. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.

3. Lime materials shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total oxides calcium oxide plus magnesium oxide. Limestone shall be ground to such fineness that at least 50% will pass through a #20 mesh sieve and 90-100% will pass through a #20 mesh sieve.

4. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

5. Seeded Preparation

1. Temporary Seeding

SEED SPECIFICATIONS

I. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.

II. Seed tags shall be made available to the inspector to verify type and rate of seed used.

III. Inoculant for treatment of seed in the seed mixture shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than 14 days before the seed is sown. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 70 degrees Fahrenheit will make the inoculant less effective.

IV. Methods of Seeding

1. Hydroseeding

2. Dry Seeding

3. Broadcast Seeding

4. Mulch Specifications (in order of preference)

5. Straw

6. Wood Cellulose Fiber Mulch (WCFM)

7. WCFM

8. WCFM

9. WCFM

10. WCFM

11. WCFM

12. WCFM

13. WCFM

14. WCFM

15. WCFM

16. WCFM

17. WCFM

18. WCFM