# GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF
- ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY 'MISS UTILITY' AT 1-800-257-7777 AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION WORK.
- 4. PROJECT BACKGROUND: LOCATION:

TAX MAP #47, GRID 7

ELECTION DISTRICT:

BUILDABLE LOT AREA: 2.75 AC. (LOTS C-1THRU C-36) 2.66 AC. (INCLUDES COMMON AREA)

5.41 AC.

- REC. REF.: PLAT NO. 15478 + 15479 TRAFFIC CONTROL DEVICES. MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTC). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY
- ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIALLY BETWEEN ITEMS UNLESS OTHERWISE
- EXISTING TOPOGRAPHY AND FEATURES WERE DERIVED FROM AERIAL PHOTOGRRAPHY BY DAFT, McCUNE + WALKER, SUMMER 1998 AND MASS GRADING INFORMATION FROM F-01-177.
- HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY
- CONTROL STATIONS 47 EA. + 47 E4. 9. PUBLIC WATER AND SEWER IS TO BE UTILIZED (PATAPSCO DRAINAGE AREA). CONTRACT NO. 34-4010-D.
- 10. STORMWATER MANAGEMENT IS PROVIDED BY A PRIVATE FACILITY UNDER F-01-177.THE PRIVATE STORMWATER MANAGEMENT, DRAINAGE AND UTILITY EASEMENT IS OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- 11. ALL STORM DRAINS SHOWN ARE PRIVATE AND ARE BUILT UNDER THE F-01-177 AND F-02-30 PLANS.
- 12. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM F-01-177, F-02-30 AND CONTRACT NO. 34-4010-D BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
- 13. BOTH THE NOISE AND TRAFFIC STUDIES WERE APPROVED AS PART OF SKETCH PLAN 5-00-13 APPROVED ON 10-10-2000.
- 14. ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT
- THE CONTRACTOR'S EXPENSE. 15. OTHER HOWARD COUNTY FILES RELATED TO THIS SITE:
- 5-00-13.P-01-15.PB-345.WP-01-88.WP00-88.WP-00-126.WP-01-60.WP-01-94. F-01-177. F-02-30 AND CONTRACT # 34-4010-D.
- 16. FOREST CONSERVATION FOR THIS SITE IS PROVIDED UNDER F-01-177.
- 17. FOR DRIVEWAY APRON, SEE HOWARD COUNTY STANDARD DETAIL No R-6.03 AND R-6.05.
- 18. LANDSCAPING AND REQUIRED STREET TREES SHALL BE IN ACCORDANCE WITH THE APPROVED ROAD CONSTRUCTION DRAWING, F-02-30. SURETY FOR THE LANDSCAPING OF THE LOTS AND PARKING AREAS IN IN THE AMOUNT OF \$11.700 SHALL BE PAID AT TIME OF GRADING PERMIT APPLICATION.
- 19. BENCH MARKS/CONTROL STATIONS: #47EA-N 535063.631 E 1357283.989 EL=315.28 AND #47E4 N 535063.631 E 13572830989 EL=338.91
- 20. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS. CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS: PORCHES OR DECKS. OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- WP-01-60 JANUARY 16, 2000, WAIVER OF SECTION 16.120.c.(2), TO PERMIT LOTS WITHOUT PLIBLIC ROAD FRONTAGE, AND 16.120.c.(4). TO PERMIT THE LENGTH OF A PRIVATE ROAD TO EXCEED 200' FOR SFA LINITS, WAS GRANTED.
- 22. BOULDER RIDGE ROAD AND TIMBER OAK LANE ARE PRIVATE ROADS AND SHALL BE
- 23. SEWER CLEANOUTS SHALL BE FLUSH WITH PROPOSED DRIVEWAY SURFACE. IF A CONCRETE DRIVEWAY IS TO BE UTILIZED, PROVIDE A 12-INCH BY 12-INCH REINFORCED CONCRETE PANEL AROUND THE CLEANOUT WITH EXPANSION JOINT MATERIAL AS APPROPRIATE. IF IN THE FUTURE, CLEANOUT IS PAVED OVER, DPW WILL NOT BE RESPONSIBLE FOR DAMAGE TO DRIVEWAY WHEN ACCESSING CLEANOUT.
- 24. THIS PLAN IS SUBJECT TO COMPLIANCE WITH THE FOURTH EDITION OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - A. WIDTH-12' (14' SERVING MORE THAN ONE RESIDENCE);
  - B. SURFACE- 6° OF COMPACTED CRUSHER RLIN BASE W/TAR AND CHIP COATING (1-1/2° MIN.):
  - C. GEOMETRY- MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45° TURNING RADIUS;

DES. HKJ DRN.HKJ CHK. HKJ

- D. STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING); E. DRAINAGE ELEMENTS - CAPABLE OF SAFETY PASSING 100-YEAR FLOOD WITH NO MORE THAN
- 1 FOOT DEPTH OVER DRIVEWAY SURFACE. F. MAINTENANCE - SUFFICIENT TO ALL WEATHER USE.
- ALL EASEMENTS (PUBLIC AND PRIVATE) SHOWN ON THESE PLANS ARE PER

RECORDED PLAT No. 15479. UNLESS OTHERWISE NOTED. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

BURTONSVILLE, MARYLAND 20866

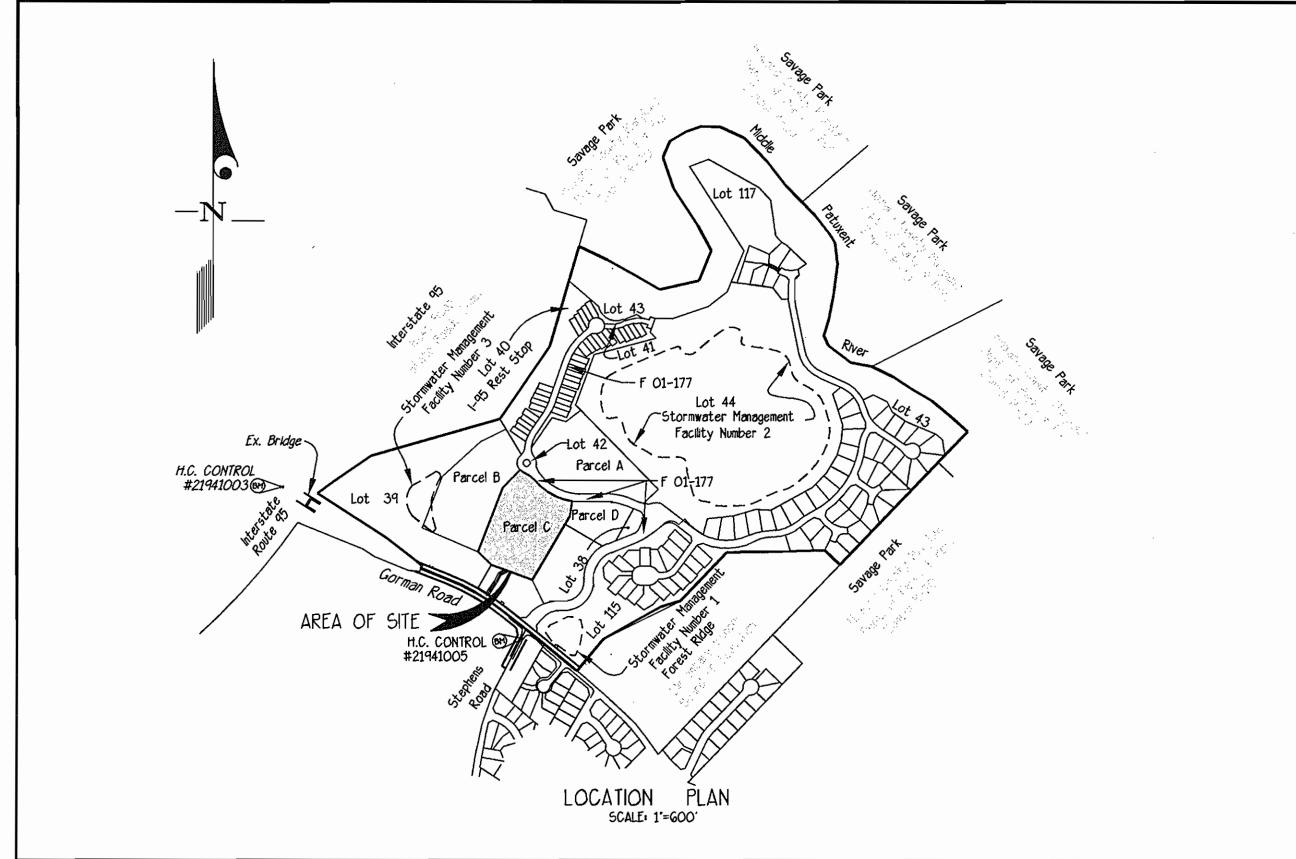
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

\DRAWINGS\01075\DESIGN\SDP-02-XX\ 010755P1



# SITE DEVELOPMENT PLAN

# STONELAKE



SHEET NO.

BY

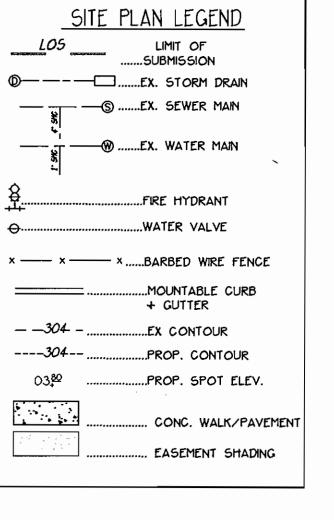
A. PRESENT ZONING: PROPOSED USED FOR SITE AND STRUCTURE: SINGLE FAMILY ATTACHED C. TOTAL NUMBER OF UNITS ALLOWED: 36 TOTAL NUMBER OF UNITS PROVIDED: 36

SITE ANALYSIS

AREA TABULATION

GENERAL SITE DATA

- SITE AREA: 2.75 AC. FOR 36 BUILDABLE LOTS 2.66 AC. OPEN SPACE ON SITE (49% OF GROSS AREA)
- AREA OF PLAN SUBMISSION: 5.41 AC. C. LIMIT OF DISTURBANCE: 5.41 AC.
- PARKING TABULATION:
  - A. PARKING REQUIRED: 72 (2 SPACES PER UNIT)
  - PARKING PROVIDED: 36 GARAGE SPACES 36 DRIVEWAY SPACES
    - SURFACE SPACES)
- SHEET INDEX COVER SHEET + HOUSE MODEL DETAILS SITE DEVELOPMENT PLAN SEDIMENT AND EROSION PLAN SEDIMENT AND EROSION NOTES AND DETAILS LANDSCAPE PLAN LANDSCAPE NOTES AND DETAILS



MATRIX-INTERIOR LOTS						
LOT	PATIO	STD. DECK	CUSTOM DECK			
<b>)-2</b>	NA	N	9.4' X 12.33'			
<b>)-3</b>	NA	N	10.6' X 12.33'			
<b>)-6</b>	NA	N	6.7' X 12.33'			
>-7	NA	Y	NA			
-10	NA	Y	NA			
<b>)-11</b>	NA	Y	NA			
C-12	NA	N	5.5' X 12.33'			
<b>-15</b>	NA	N	4.7′ X 12.33′			
-16	NA	N	8.5' X 12.33'			
<b>≻-17</b>	NA	Y	NA			
-20	NA	N	5' X 12.33'			
-21	NA	N	9.5′ X 12.33′			
-22	NA	Y	NA			
-23	NA	Y	NA			
-26	NA	N	12' X 12.33'			
-27	NA	Y	NA			
-28	NA	N	12' X 12.33'			
-29	NA	N	5' X 12.33'			
-32	NA	N	6' X 12.33'			
-33	` NA	N	9' X 12.33'			
-34	NA	N	11.5' X 12.33'			
-35	NA	Y	N			

COVER SHEET & HOUSE MODEL DETAILS

END

UNIT

STD. DECK -

32.5

END

UNIT

END UNIT:

LOT COVERAGE=2.368 SF

SMALLEST LOT SIZE: 3.945 SF

MIN. LOT SIZE= 3,947 SF

(REQ'D. FOR GO%

LOT COVERAGE)

INTERIOR

TYPICAL HOUSE TYPES

NOTE: AS SOME OF THE LOTS DO NOT MEET THE LOT COVERAGE MAXMUMS WITH THE STANDARD DECKS A MATRIX IS

PROVIDED BELOW WITH SIZES INDICATED TO BE WITHIN THE MAXIMUM LOT COVERAGE.

OPT. DECK'W/OPT.SUNROOM

INTERIOR

UNIT

INTERIOR UNIT:

REQ'D FOR GOZ

LOT COVERAGE)

LOT COVERAGE=1,675 SF

MIN. LOT SIZE= 2.792 SF

SMALLEST LOT SIZE:2,639 SF

(LOTS C-25 + C-31 ONLY)

-STD. DECK OR

OPT. SUNROOM

	YLNAUL.			0-4	0/13
				C-10	8717
			[	C-11	8719
			, [	C-12	8721
	MATRIX-END L	OT5		C-13	8723
LOT	STD. DECK	CUSTOM DECK	1 <b>[</b>	C-14	8727
C-1	N	N	] [	C-15	8729
C-4	Y	NA NA	1 <b>[</b>	C-16	8731
C-5	Y **	NA	1 <b>I</b>	C-17	8733
C-8	Y * *	Y (SEE PLAN)	1 [	C-18	8735
C-9	Y * **	NA	1 [	C-19	8738
C-13	Y	NA		C-20	8736
C-14	Y	NA	1 [	C-21	8734
C-18	Y	NA NA	1 <u>[</u>	C-22	8732
C-19	Y	NA NA		C-23	8730
C-24	Y	NA .		C-24	8728
C-25	Υ	*		C-25	8724
C-30	N	11.9' X 18'		C-26	8722
C-31	N	*		C-27	8720
C-36	Y	NA		C-28	8718
	C-31 AND C-25 IS			C-29	8716
	rand is available w	1TH A SUNROOM AND	Α	C-30	8714
DEC * * THE	J. DECKS ON C-5 AND		C-31	8710	
	MUST BE LOCATED A	TE	C-32	8708	
Plan. **Lot C-9 is sited with an interior unit				C-33	8706
	E TO BUILDING SETBAC			C-34	8704
	WATER CODE:	SEWER CODE:	$\neg \neg [$	C-35	8702
		610000		C-36	8700

n. 1 C-9 is sited with an interior unit 5 to building setbacks.			(	-33	8706 TIMBER	OAK LANE
				-34	8704 TIMBER OAK LANE	
WATER CODE: SEWER CODE:			C-35 8702 TIMBER OAK LANE			OAK LANE
E15 6100000		C-36		8700 TIMBER	OAK LANE	
SUBDIVISION NAME: STONE LAKE C-1 - C-			-39		TION/AREA N/A	PARCEL P/O 837
PLAT ZONE TAX MAP			BL	OCK	ELEC. DIST.	CENSUS TRACT

15478 \$15479 R-E

MARCH

HOWARD COUNTY, MARYLAND

:D	47	7 6	6069.02
	SCALE	ZONING	G. L. W. FILE No.
	1"=600'	R-ED	01-075
	DATE		enert.

VICINITY MAP

1°=2000°

ADDRESS CHART

STREET ADDRESS

C-2 8733 BOULDER RIDGE ROAD

C-3 8735 BOULDER RIDGE ROAD

C-4 8737 BOULDER RIDGE ROAD

C-5 8705 TIMBER OAK LANE

C-G 8707 TIMBER OAK LANE

C-7 8709 TIMBER OAK LANE

C-8 8711 TIMBER OAK LANE

C-9 8715 TIMBER OAK LANE

8731 BOULDER RIDGE ROAD

TIMBER OAK LANE

TIMBER OAK LANE TIMBER OAK LANE

TIMBER OAK LANE

REVISION

31 (9' X 18' COMMON

103 TOTAL SPACES (2.8 SP/UNIT)

GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

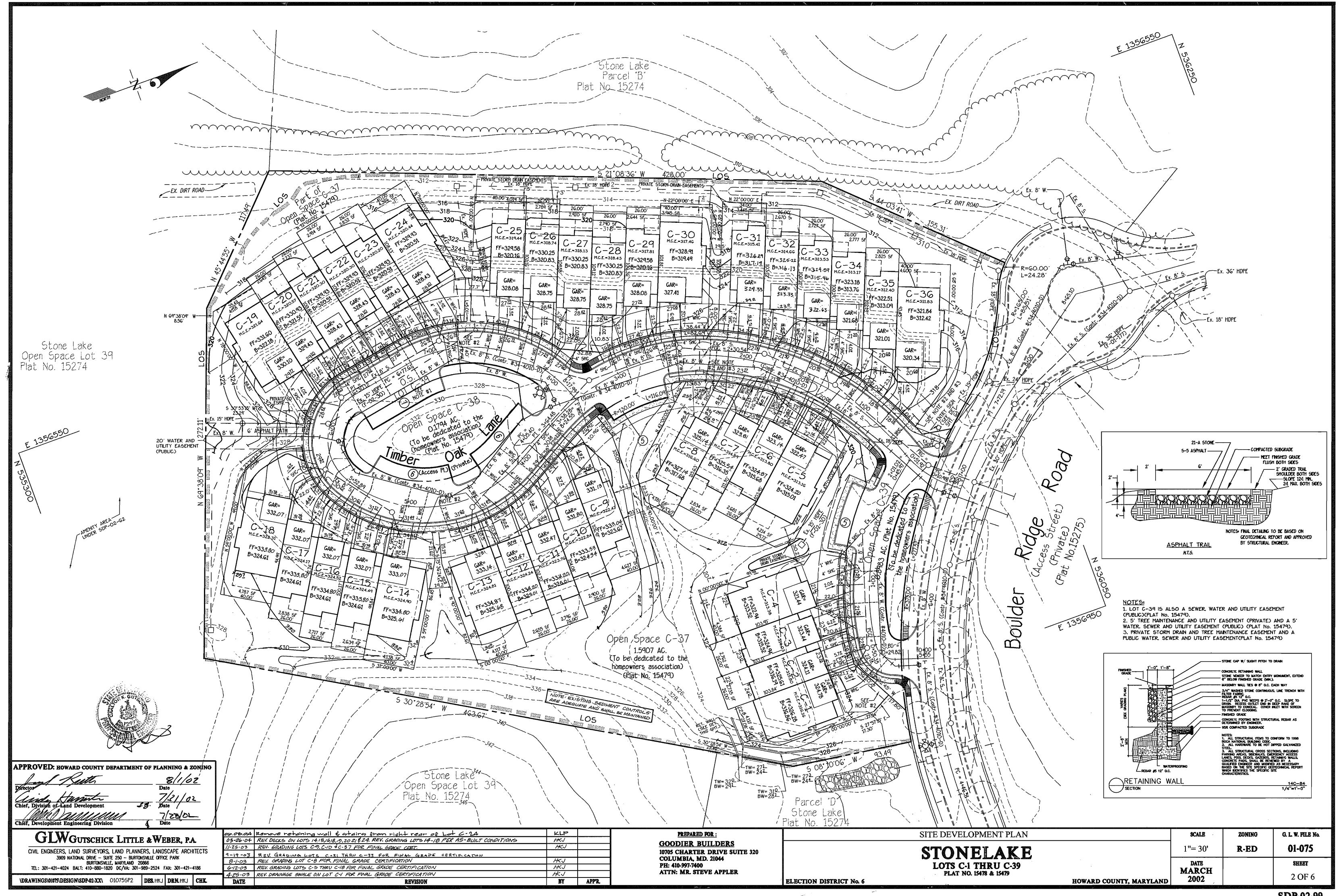
DATE

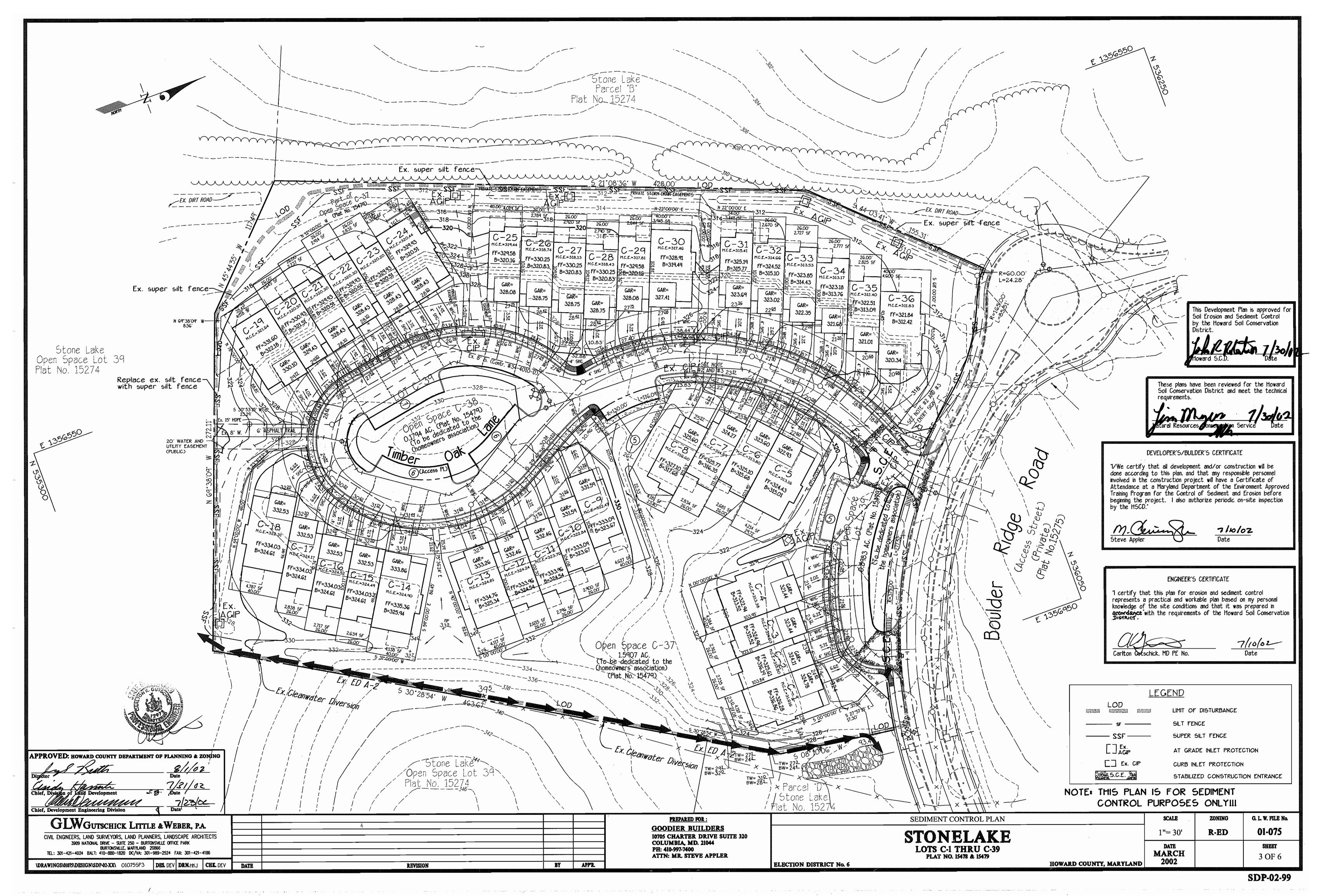
PREPARED FOR: **GOODIER BUILDERS** 10705 CHARTER DRIVE SUITE 320 COLUMBIA, MD. 21044 PH: 410-997-7400 ATTN: MR. STEVE APPLER

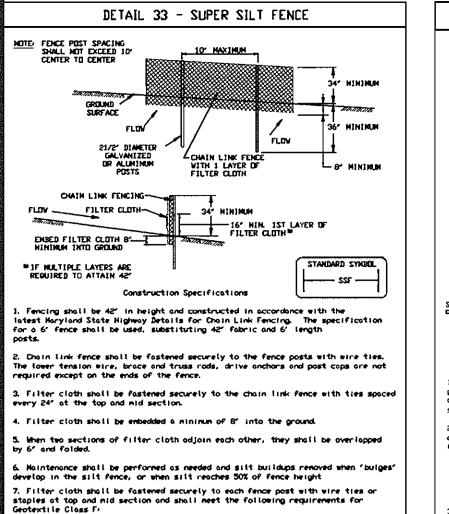
**STONELAKE** LOTS C-1 THRU C-39 PLAT NO. 15478 & 15479 **ELECTION DISTRICT No. 6** 

SDP-02-99

1 OF 6

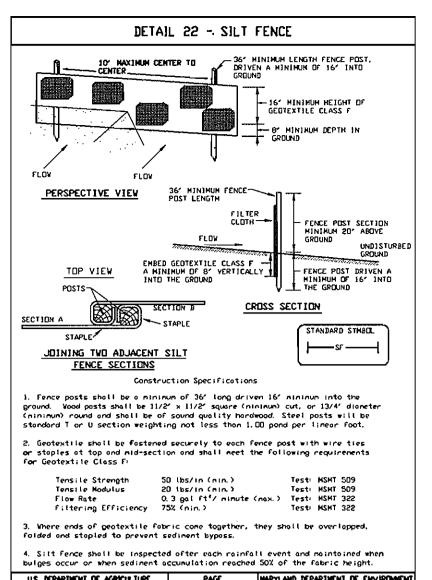


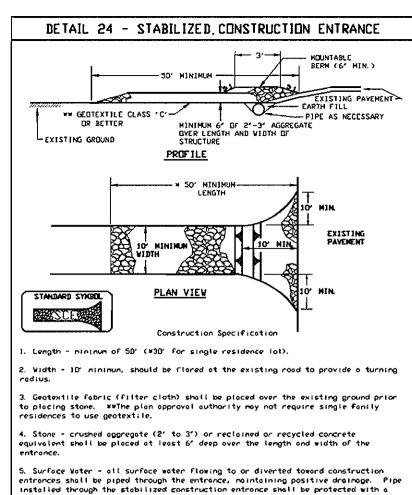




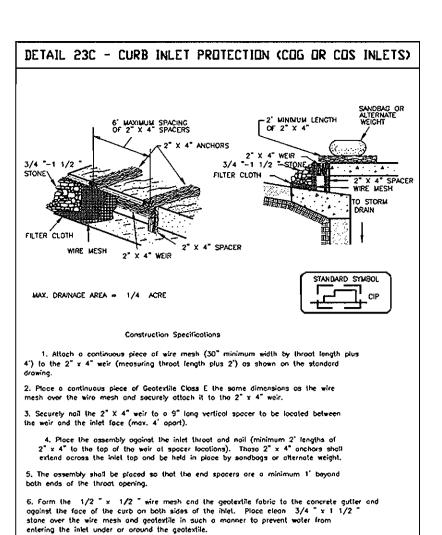
Tensi le Strength

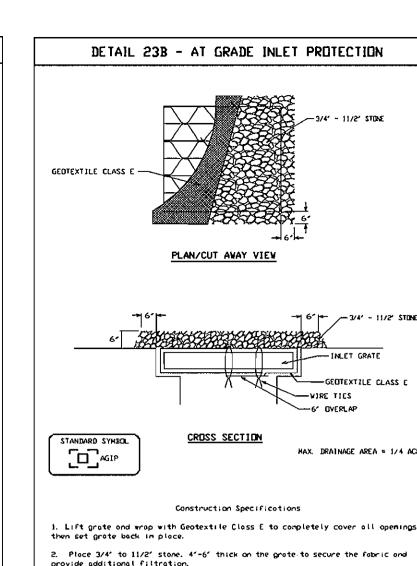
Tensile Modulus 20 (bs/in (min.)
Flow Rate 0.3 gal/ft\*/minute (max.)
Filtering Efficiency 75% (min.)





untable bern with 5-1 slopes and a nininum of 6° of stone over the pipe. to be sized according to the drainage. When the SCE is located at a high spot end has no drainage to convey a pipe will not be necessary. Pipe should be sized ling to the amount of runoff to be conveyed. A 6' minimum will be r . Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site nust travel over the entire length of the stabilized construction entran





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

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

3. Following initial soil disturbance or redisturbance.

graded areas on the project site.

permanent or temporary stabilization shall be completed

control structures, dikes and perimeter slopes and all slopes

greater than 3:1. b) 14 days as to all other disturbed or

4. All sediment traps/basins shown must be fenced and warning

1. Chapter 12. of the HOWARD COUNTY DESIGN MANUAL, Storm

5. All disturbed areas must be stabilized within the time period

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT

specified above in accordance with the 1983 MARYLAND

CONTROL for permanent seedings, sod, temporary seeding

Temporary stabilization, with mulch alone, can only be done

when recommended seeding dates do not allow for proper

6. All sediment control structures are to remain in place and

for their removal has been obtained from the Howard County

5.41 Acres

5.41 Acres

2.6 Acres

2.81 Acres

4.200 Cu. Yds.

4.200 Cu. Yds.

are to be maintained in operative condition until permission

germination and establishment of grasses.

Area to be roofed or paved

Area to be vegetatively stabilized:

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

9. Additional sediment control must be provided, if deemed

necessary by the Howard County DPW Sedlment Control

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

disturbance or grading. Other building or grading inspection

11. Trenches for the construction of utilities is limited to 3

pipe lengths or that which shall be backfilled and stabilized

approvals may not be authorized until this initial approval

controls, but before proceeding with any other earth

signs posted around their perimeter in accordance with Vol.

within: a) 7 calendar days for all perimeter sediment

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

start of any construction. (410) 313-1855.

SEDIMENT CONTROL.

Drainage.

and mulching (Sec. G).

Sediment Control Inspector.

Total Area of Site

Area Disturbed

Total Cut

Total Fill

same day of disturbance.

by the inspection agency is made.

within one working day, whichever is shorter.

7. Site Analysis:

STANDARD AND SPECIFICATIONS FOR TOPSOIL DEFINITION Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

PURPOSE

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH. materials toxic to plants. and/or unacceptable soil gradation.

# CONDITIONS WHERE PRACTICE APPLIES

- 1. This practice is limited to areas having 2:1 or flatter slopes
- a. The texture of the exposed subsoil/parent material is not
- adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is
- c. The original soil to be vegetated contains material toxic to plant growth.
- not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization

than 1 1/2° in diameter.

- ii. Topsoil must be free of plant parts such as bermuda grass. quackgrass. Johnsongrass. nutsedge. poison ivy. thistle, or others as specified.
- iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate if 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- II. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply soil amendments as Vegetative Stabilization Methods and Materials.

- to bring the soil into compliance with the following:
  - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
  - c. Topsoil having soluble salt greater than 500 parts per mill shall not be used.
  - been with soil sterilants or chemicals used for days min.) to permit dissipation of photo-toxic materials.
- Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and be used in lieu of natural topsoil.
  - specified in 2.0 Vegetative Stabilization Section I -
- - When topsoilling, maintain needed erosion and sediment control practices such as diversion. Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

previously established, shall be maintained, albeit 4° -8' higher in elevation.

iii. Topsoil shall be uniformly distributed in a 4'-8' layer and lightly compacted to a minimum thickness of 4°. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoilling or other operations shall be corrected in order to prevent the formation of depressions or water

ii. Grades on the areas to be topsoiled, which have been

- iv. Topsoil shall not be placed while the topsoil or subsoil is frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
- i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus. and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements. the appropriate constituents must be added to meet the requirements prior to use.
- c. Composted sludge shall be applied at a rate of 1 ton/1.000 square feet.
- iv. Composted sludge shall be amended with a potassium fertilizer applied at a rate of 4lb/1.000 square feet. and 1/3 the normal lime application rate.

Guideline Specifications. Soil Preparation and Sodding. MD-VA Pub. #1. Cooperative Extension Service. University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

# 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

7/10/02

# DEVELOPER'S/BUILDER'S CERTIFICATE

1/We certify that all development and/or 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 Maryland 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 HSCD.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation

SCALE G. L. W. FILE NO.

01-075 R-ED SHEET **MARCH** 

# SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT AND ARRANGE FOR PRE-CONSTRUCTION MEETING WITH SEDIMENT CONTROL INSPECTOR. (1 DAY)
- 2. INSPECT SEDIMENT CONTROL DEVICES INSTALLED UNDER F-02-30 AND REPAIR AS NEEDED. (1 WEEK)
- 3. FINE GRADE SITE. (1 MONTH)
- 4. BEGIN CONTRUCTION OF TOWNHOUSE UNITS. (8 MONTHS)
- 5. STABILIZE ANY AREAS NO LONGER BEING DISTURBED, INSTALL SIDEWALKS AND DRIVEWAYS. (1 MONTH)
- G. INSTALL LANDSCAPING AND STABILIZE REMAINING AREAS WITH SOD OR GRASS SEED AND MULCH. (2 WEEKS)
- 7. WHEN AREA DRAINING TO SEDIMENT CONTROLS HAVE BEEN STABILIZED AND PERMISSION HAS BEEN GRANTED BY THE SEDIMENT CONTROL INSPECTOR. REMOVE SEDIMENT CONTROL DEVICES. (2 WEEKS)
- 8. END CONSTRUCTION

# Dust Control

<u>Definition</u>

Controlling dust blowing and movement on construction sites and roads.

# <u>Purpose</u>

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

# Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

# Specifications

# Temporary Methods

- 1. Mulches See standards for vegetative stabilization with mulches only, much should be crimped or tacked to prevent blowing.
- 2. Vegetative Cover See standards for temporary vegetative cover.
- 3. Tillage To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12° apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
- 4. Irrigation This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed At no time should the site be irrigated to the point that runoff begins to flow.
- 5. Barriers Solid board fences, silt fences, snow fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angle to prevailing currents at intervals at about ten times their height are effective in controlling soil blowing.
- 6. Calcium Chloride Apply at rates that will keep surface moist. May need treatment.

# Permanent Methods

- 1. Permanent Vegetation See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
- 2. Topsoiling Covering with less erosive soil material. See standards for top soil.
- 3. Stone Cover surface with crushed stone or gravel.

# References

- 1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
- 2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA\_ARS.

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

PERMANENT SEEDING NOTES

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

7. This type of protection must be inspected frequently and the filter cloth

8 Assure that storm flow does not bypass the injet by installing a temporary

and stane replaced when clagged with sediment.

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 feet) 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 unreaform 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 bbs per acre (1.4 bbs/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) Use sod. Option (3) Seed with 60 Ibs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 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.

Maintenance: Inspect all seeded areas and make needed repairs. replacements and reseedings.

# TEMPORARY 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. discling or other acceptable means before seeding (unless previously loosened).

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

Seeding: For periods March 1 thru April 30 and from August 15 thru October 15, seed with 2-1/2 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 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 (70 to 90 lbs/1000 sq ft) of unrotted, weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch 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 sq ft) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

BY APP'R.

**GOODIER BUILDERS** COLUMBIA, MD. 21044 PH: 410-997-7400 ATTN: MR. STEVE APPLER

PREPARED FOR :

10705 CHARTER DRIVE SUITE 320

ELECTION DISTRICT No. 6

4 OF 6 SDP-02-99

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING MM Welluman

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS. LAND SURVEYORS. LAND PLANNERS. LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866

TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 \DRAWING\$\01075\DESIGN\SDP-02-XX\ DES.DEV DRN. HKJ CHK. DEV DATE REVISION

# not deep enough to support plants or furnish continuing supplied of moisture and plant nutrients.

d. The soil is so acidic that treatment with limestone is

shown on the plans.

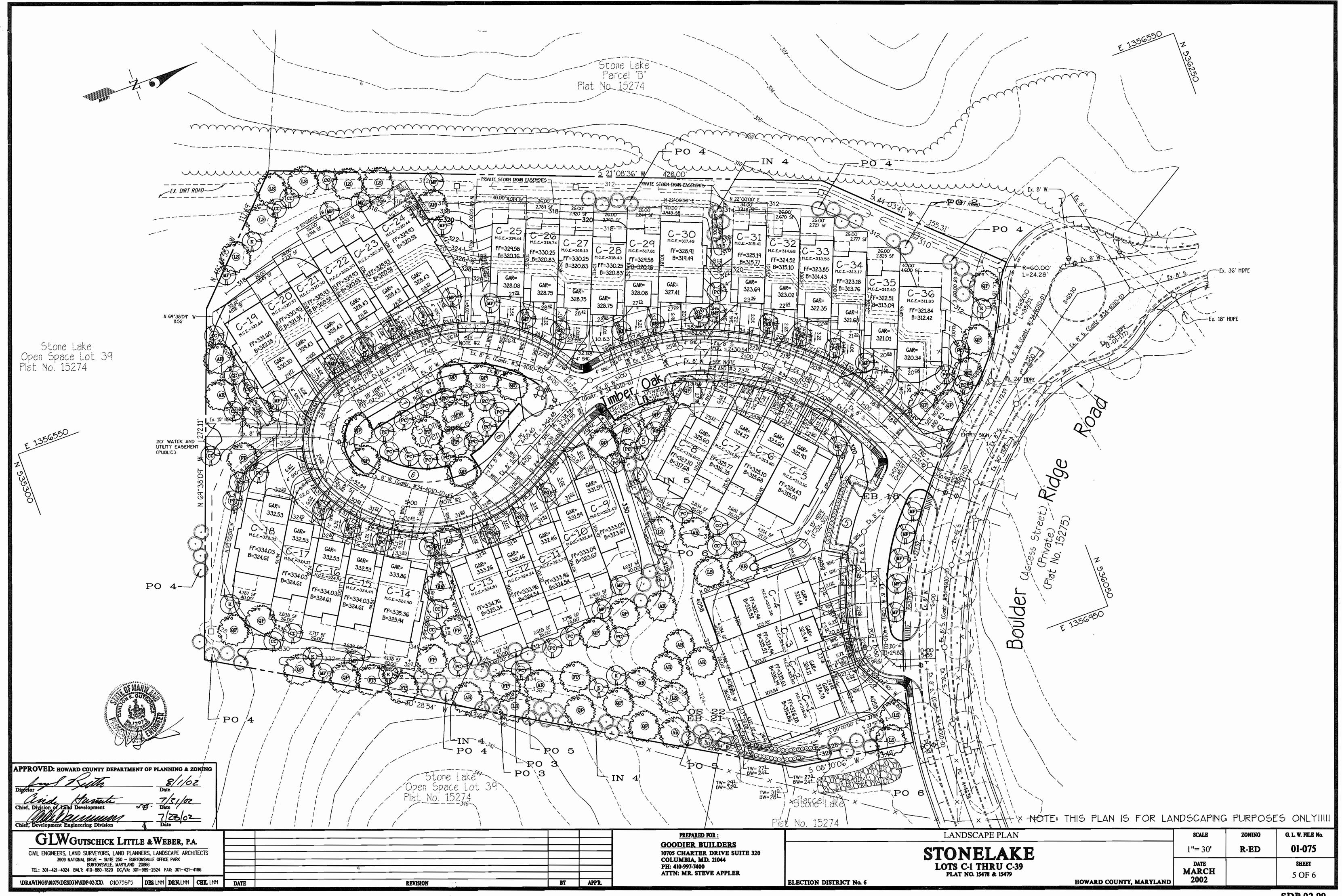
# CONSTRUCTION AND MATERIAL SPECIFICATIONS

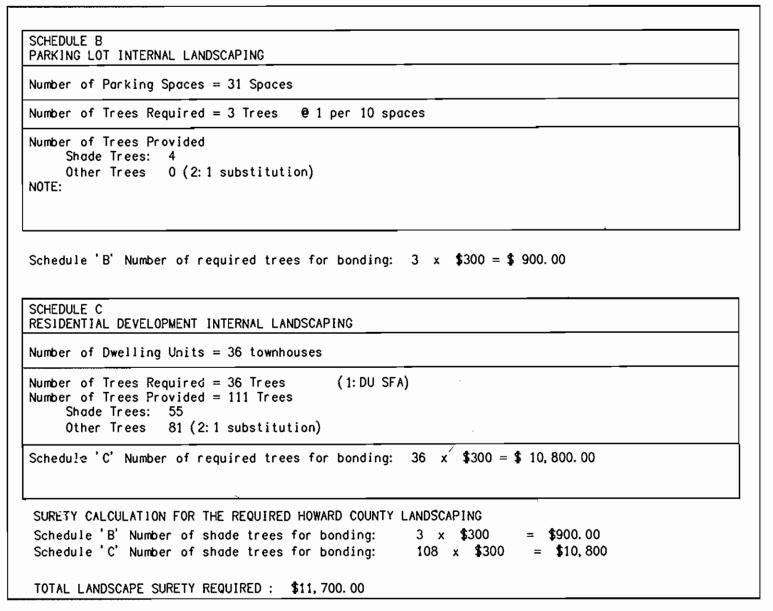
- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the respective soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by a agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders. stones, slag, coarse fragments.

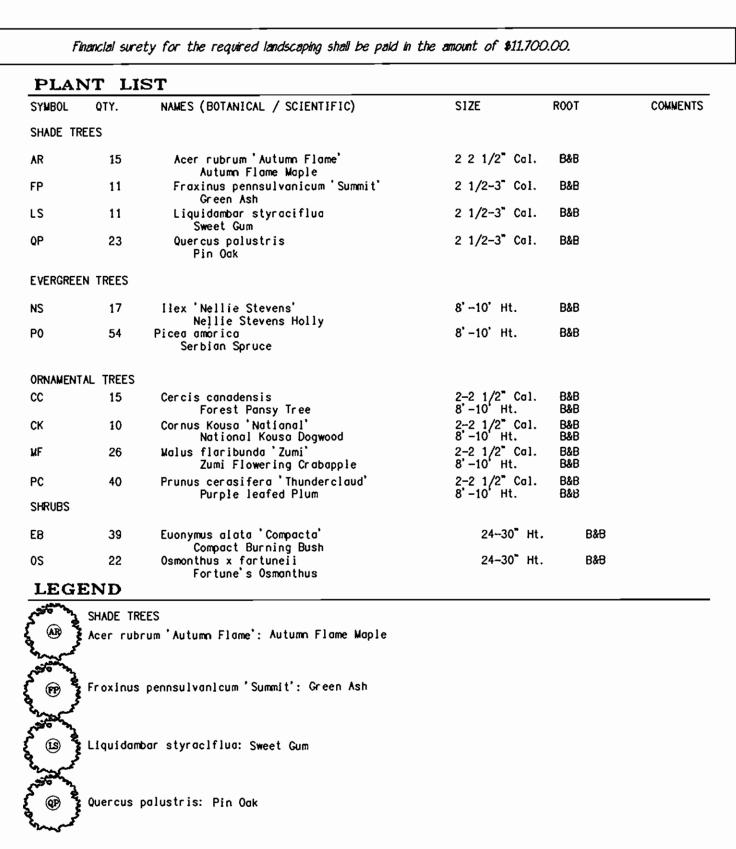
gravel, sticks, roots, trash, or other materials larger

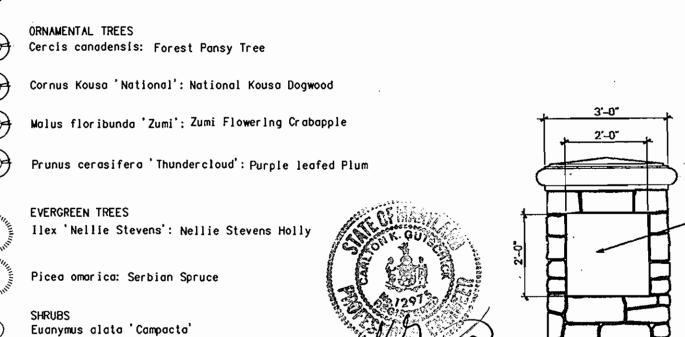
- specified in 20.0 Vegetative Stabilization Section 1 -
- II. For sites having disturbed areas over 5 acres:
- i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required
- a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0. sufficient lime shall be prescribed to raise the pH
- to 6.5 or higher.
- d. No sod or seed shall be placed on soil which has weed control until sufficient time has elapsed (14
- approved by the appropriate approval authority, may
- ii. Place topsoil (if required) and apply soil amendments as Vegetative Stabilization Methods and Materials.
- V. Topsoil Application

SEDIMENT AND EROSION NOTES AND DETAILS STONELAKE LOTS C-1 THRU C-39 PLAT NO. 15478 + 15479 2002 HOWARD COUNTY, MARYLAND









DES. LMM DRN. LMM CHK. LMM

DATE

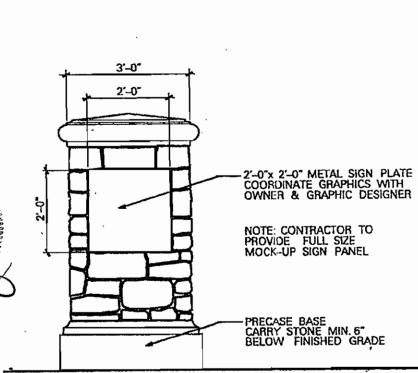
Osmanthus acquifolium APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING GLWGUTSCHICK LITTLE &WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

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\DRAWINGS\01075\DESIGN\SDP-02-XX\ 01075\SP6





# -PRECAST CAP - COLOR: BUFF -Provide Tiebacks between CMU Core AND WALL EVERY OTHER COURSE VERTICALL' AND 16" O.C. HORIZONTALLY.

STONE PIER SECTION

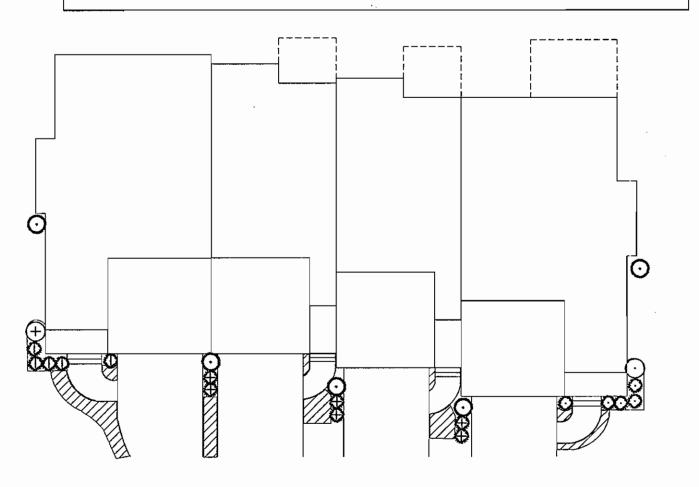
APP'R.

BY

# LANDSCAPING NOTES

- 1. This plan has been prepared in accordance with Section 16.124 af the Howard County Code and Chapter VI (Alternative Compliance) of the Howard
- 2. Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet 1 shall apply.
- 3. Field verify underground utility locations and existing conditions before starting planting work. Cantact engineer / landscape architect if any relocations are required.
- 4. Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
- 5. All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
- 6. No substitution shall be made without written consent of the owner or his representative.
- 7. All areas disturbed by construction activities but not otherwise planted, paved, or mulched shall be seeded or sodded in accordance with the project specifications.
- 8. The contractor shall notify the owner in writing if he/she encounters sail drainage conditions which may be detrimental to the grawth of the
- 9. All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Details.
- 10. "Schedule B PARKING LOT INTERNAL LANDSCAPING" and "Schedule C -RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING are provided for landscape surety calculation purposes only. Financial surety for the required landscaping shall be posted in the amount of \$11,700.00 (with the grading permit application).
- 11. Planting provided: Shade Trees (proposed): 60 Ornamental Trees: 91 Evergreen Trees (proposed): 71

Due to Howard Rouse Development Company's landscaping requirements of 3 trees per dwelling unit. the landscape requirements of Howard County have been exceeded.



PLANT LIST:					
$\odot$	1	Euonymus alatus campactus Dwarf Winged Euonymus	15: −18° Ht.	B&B	Full
0	5	llex crenata 'Green Luster' Green Luster Japanese Holly	15"-18" Cal.	B&B	Full
0	5	llex crenata 'Helleri" Helleri Holly	15"-18" Ht.	B&B	Full
$\bigoplus$	6	Juniperus sabina 'Mooredense' Moordense Juniper	18" Spr.	8&B	Full
$\oplus$	1	Taxus x Media 'Densiformis' Dense Yew	24"-30" Ht.	B&B	Full
0	5	Thuja accidentalis 'Emerald' Emerald Arborvitae	3' -4' " Ht.	B&B	Full
	280	Annuals			

TYPICAL PLANTING PLAN

REVISION

# PLANT MATERIALS AND PLANTING METHODS

# A. Plant Materials

The landscape contractor shall furnish and install and/or dig, ball, burlap and transplant all of the plant materials called far on drawings and/or listed in the Plant Schedule.

# 1. Plant Names

Plant names used in the Plant Schedule shall conform with "Standardized Plant Names,"

# 2. Plant Standards

All plant material shall be equal to or better than the requirements of the "USA Standard for Nursery Stock" latest edition, as published by the American Association of Nurserymen (hereafter referred to os AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of arawth and shall be first quality, sound, vigorous, well-branched and with healthy, well-furnished root systems. They shall be free of disease, insect pests and mechanical injuries.

All plants shall be nursery grown and shall have been grown under the same climate conditions os the location of this project for at least two years before planting. Neither heeled-in plants nar plants from cold storage will be accepted.

# 3. Plant Measurements

All plants shall conform to the measurements specified in the Plant Schedule as approved by

- a. Caliper measurements shall be taken six inches (6") above grade for trees under faur-inch (4") caliper and twelve (12") above grade for trees four inches (4") in caliper and over.
- b. Minimum branching height for all trees shall be six feet (6'), maximum eight feet (8').
- c. Minimum size for planting shade trees shall be 3-3?" caliper, 14'-16' in height.
- d. Minimum size for planting minor or intermediate focus trees (pines, crabapples, etc.) shall be 3"-3?" caliper, 10'-12' in height.
- Minimum size for planting shrubs shall be 18" - 24" spread unless
- f. Caliper, height, spread and size af ball shall be generally as fallows:

CALIPER	HEIGHT	SPREAD	SIZE OF BALL
3" - 3.5" 3.5" - 4" 4" - 4.5" 4.5" - 5" 5" - 5.5" 5.5" - 6"	14' -16' 16' -18' 16' -17' 16' -20'	6' -8' 8' -10' 8' -10' 10' -12' 10' -12' 12' -14'	32" diameter 36" diameter 40" diameter 44" diameter 48" diameter 52" diameter

All plant material shall generally average the median for the size ranges indicated above as indicated in the "AAN

# 4. Plant Identification

Legible labels shall be attached to all shade trees, mlnor trees, specimen shrubs and bundles or boxes of other plant material glving the botanical and cammon names, size and quantity of each. Each shipment of plants shall bear certificates of inspection as required by Federal, State and County

# Plant Inspection

The ARC may, upon request by the builder or developer, at least ten (10) days prior to the installation of any proposed plant material, inspect all proposed plant material at the saurce

# B. Planting Methods

All proposed plant moterials that meet the specifications in Section A are to be planted in accordance with the following methods during the proper planting seasans as described in the fallowing:

# Planting Seasons

The planting of deciduous trees, shrubs and vines shall be from March 1st to June 15th and from September 15th to December 15th. Planting of deciduous material may be cantinued during the winter months providing there is no frost in the ground and frost-free tapsoil planting mixtures are used.

The planting of evergreen material shall be from March 15th to June 15th and from August 15th to December 1st. No planting shall be done when ground is frozen or excessively maist. No frozen ar wet tapsail shall be used at any time.

# 2. Digging

All plant moterial shall be dug, balled and burlapped (B+B) In accordance with the "AAN Standards\*

# 3. Excavation of Plant Pits

The landscaping contractor shall excavate all plant pits, vine pits, hedge trenches and shrub beds in accordance with the following

- a. Locations of all proposed plant material shall be staked and approved in the field by the landscape architect before any of the proposed plant material is installed by the landscape contractor.
- b. All pits shall be generally circular in outline, vertical sides; depth shall not be less than 6" deeper than the root ball, diameter shall not be less than two times the diameter of the root ball as set forth in the following

c. If areas are designated as shrub beds or hedge trenches, they shall be excavated to at least 18" depth minimum. Areas designated for ground covers and vines shall be excavated to at least 12" in depth minimum.

### d. Diameter and depth of tree pits shall generally be as follows:

PLANT SIZE	ROOT BALL	DIAMETER	DEP
3" - 3.5°cal.	32"	64 <b>"</b>	2
3.5"- 4" cal.	36 <b>"</b>	72 <b>"</b>	3
4" - 4.5"cal.	40"	80 <b>"</b>	30
4.5"-5" cal.	44"	88*	40
5" - 5.5"cal.	48"	96"	4
5.5°-6° cal.	52 <b>"</b>	104"	48

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra tapsoil. The tabulated pit sizes are for purpases of uniform calculation and shall not override the specified depths below the bottoms of the root balls.

## 4. Staking, Guying and Wrapping

All plant material shall be staked or guyed, and wrapped in accordance with the following specifications:

- a. Stakes: Shall be sound wood 2" x 2" raugh sawn aak or similar durable woods, or lengths, minimum 7'-0" for major trees and 5°-0" minimum for
- b. Wire and Cable: Wire shall be #10 ga. galvanized or bethanized annealed steel wire. For trees over 3" caliper, provide 5/16" turn buckles, eye and eye with 4" takeup. Far trees over 5° caliner. provide 3/16", 7 strand cable cadmium plated steel, with galvanized "eye" thimbles of wire and hose on trees up to 3" in
- Hase: Shall be new, 2 ply reinforced rubber hose, minimum 1/2 I.D. "Plastic Lock Ties" or "Paul's Trees Braces" may be used in place of wire and hose on trees up to 3 in caliper.
- d. All trees under 3" in caliper are to be planted and staked in accordance with the attached "Typical Tree Staking Detoil". All trees over in caliper are to be planted and guyed in accordance with the attached "Typical Tree Guying Detail".

# 5. Plant Pruning, Edging and Mulching

- a. Each tree, shrub ar vine shall be pruned in an appropriate manner to its particular requirements, in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1" in diameter shall be painted with an approved antiseptic tree wound
- b. All trenches and shrub beds shall be edged and cultivated to the lines shown an the drawing. The areas oround isolated plants shall be edged and cultivated to the full digmeter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated breas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine packets.
- c. After cultivation, all plant materials shall be mulched with a 2" layer of fine, shredded pine bark, peat mass, or another appraved material over the entire area of the bed or saucer.

# 6. Plant Inspection and Acceptance

The ARC shall be responsible for inspecting all planting projects on a periodic basis to assure that all work is praceeding in accordance with the approved plans and specifications.

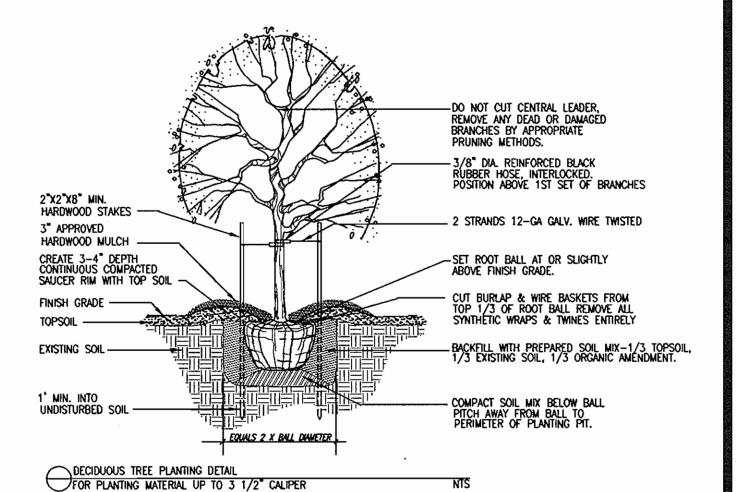
# 7. Plant Guarantee

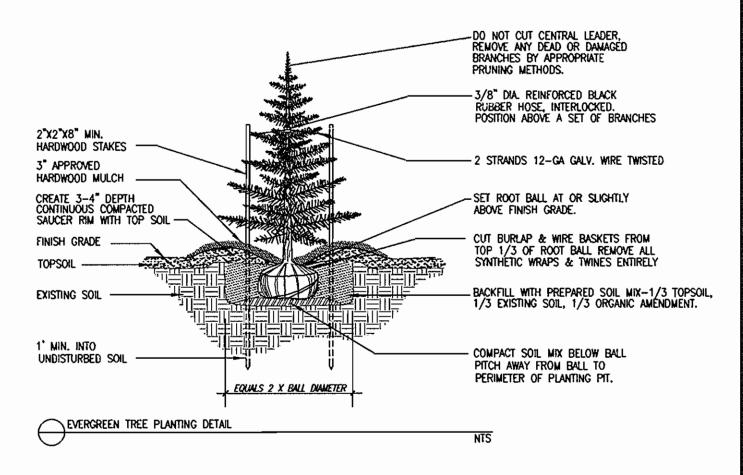
All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee periad.

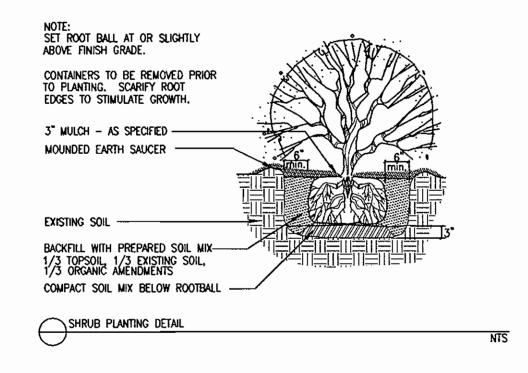
- a. For this purpose, the "growing seasan" shall be that period between the end of the "Spring" planting seasan, and the commencement of the "Fall" planting
- b. Guarantee for planting performed after the specified end of the "Spring" planting season, shall be extended through the end of the next following "Spring" planting season.

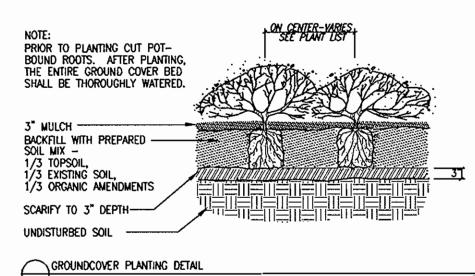
All sadding shall be in accordance to the "Landscape Specification" Guidelines for Baltimore-Washington metropalitan Areas" latest edition, approved by the Landscape Contractors Association of Metrapalitan Washingtan and the American Society of Landscape

All sad shall be strangly roated sad, not less than two years old and free of weeds and undesirable native grasses. Pravide only sod capable of growth development when planted and in strips not more than 18" wide x 4" long. Provide sod composed principally of improved strain Kentucky bluegrass, such as, Columbia, Vlcta, or









GROUNDCOVER PLANTING DETAIL

ing	schedule.			
	LANDSCAPE NOTES AND DETAILS	SCALE	ZONING	G. L. W. FILE No.
	STONELAKE	NTS	R-ED	01-075
	LOTS C-1 THRU C-39	DATE		SHEET
	PLAT NO. 15478 & 15479 ELECTION DISTRICT No. 6 HOWARD COUNTY, MARYLAND	MARCH 2002		6 OF 6

PREPARED FOR: GOODIER BUILDERS 10705 CHARTER DRIVE SUITE 320 COLUMBIA, MD. 21044 PH: 410-997-7400 ATTN: MR. STEVE APPLER

**SDP-02-99**