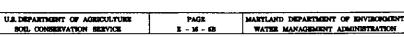


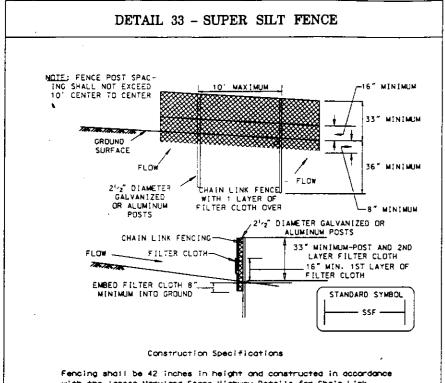
Attach a continuous piece of wire mesh (30° minimum width by throat length plus ') to the 2" \times 4" weir (measuring throat length plus 2') as shown on the standard 2. Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the $2\,^{\prime\prime}$ x $4\,^{\prime\prime}$ weir 3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between

6. Place the assembly against the inlet throat and noil (minimum 2' lengths of $2^{\prime\prime}$ x 4° to the top of the weir at spacer locations). These $2^{\prime\prime}$ x 4° anchors shall extend across the inlet top and be held in place by sandbags or alternate weight. 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond

6. Form the $\frac{\log^n \times \log^n}{2}$ wire meah and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean $\frac{3}{4}q^n \times 1^{\log^n}$ ogainst the tack of the curb on both sides of the injet. Flace creaming the stone over the wire mesh and geotextile in such a manner to prevent water from entering the injet under or around the geotextile. 7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.

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





Fencing. The specification for a 6 foot fence shall be used.

2. Chain link fence shall be fastened securely to the fence posts with wire ties or stoples. 3. Filter cloth shall be fastened securely to the chain link

6. Maintenance shall be performed as needed and silt buildups

4. Filter cloth shall be empedded a minimum of b" into the 5. When two sections of filter cloth adjoin each other, they

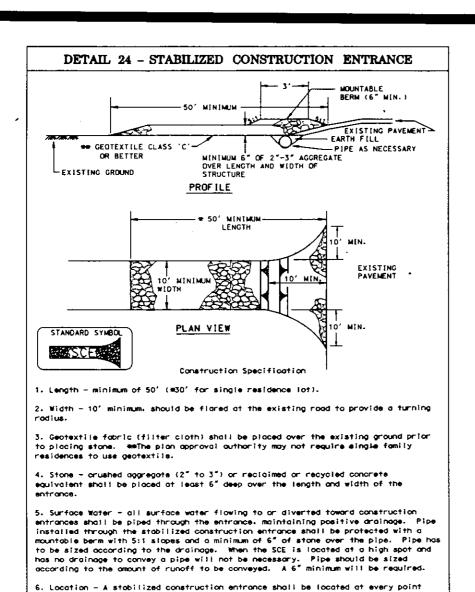
removed when "buildes" develop in the silt fence.

GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

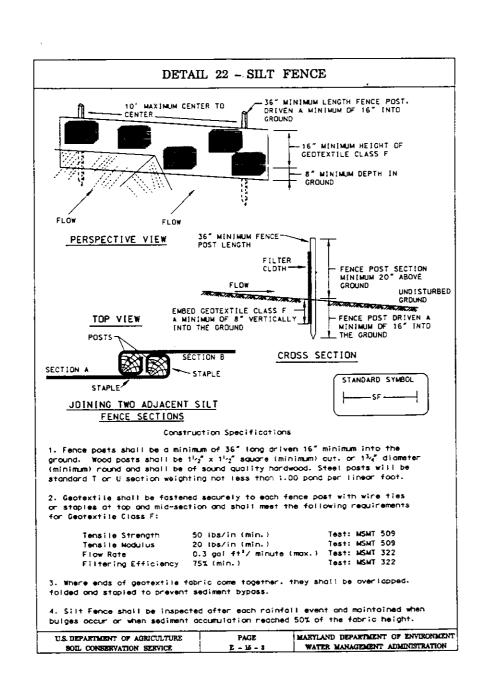
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

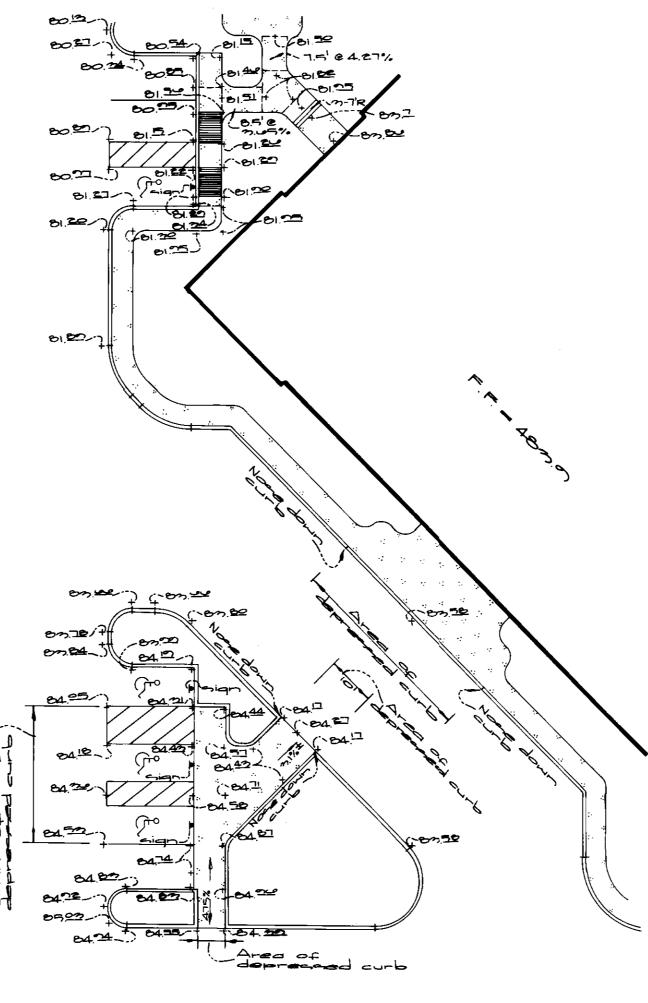
TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT: (410) 880-1820 FAX: (301) 421-4186 DES. DRN.



the site must travel over the entire length of the stabilized construction entrance

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE P-17-3 WATER MANAGEMENT ADMINISTRATION





1. A minimum of 48 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (410) 313-1855

SEDIMENT CONTROL NOTES

- 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 and revisions there to.
- 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 and 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.
- 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding , and mulching. (Sec. G) Temporary stabilization, with mulch alone, shall only 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 operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site : 1.70 Acres Area Disturbed Acres : 2.25 Area to be roofed or paved Acres Area to be vegetatively stabilized : 0.84 : 2310 Cu. Yds. Total Fill 2310 Cu. Yds. 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 same day of disturbance.
- 9. Additional sediment control must be provided, if deemed necessary by the Howard County 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.
- 11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back filled and stabilized within one working day, whichever is shorter.

CLANSSALE ELECTION DISTRICT No. 5

PERMANENT SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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 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 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/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 sa 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 sa ft) for anchorina.

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.

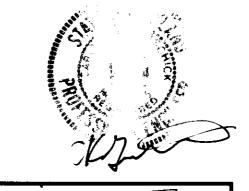
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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



DATE

"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

ENGINEER'S CERTIFICATE

1-21-97

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/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.

REVISION



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

These plans have been reviewed for the Howard

Soil Conservation District and meet the technical

They was

Natural Resources Conservation Service Date

Howard S.C.D.

BY APP'R.

AHROTE

APPROVED: FOR PUBLIC WATER & SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT County Health Officer APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING 7/3/17 Date Millann

PREPARED FOR:

Troutman Componies

BBIS Center Abrik Orive

Suite 104

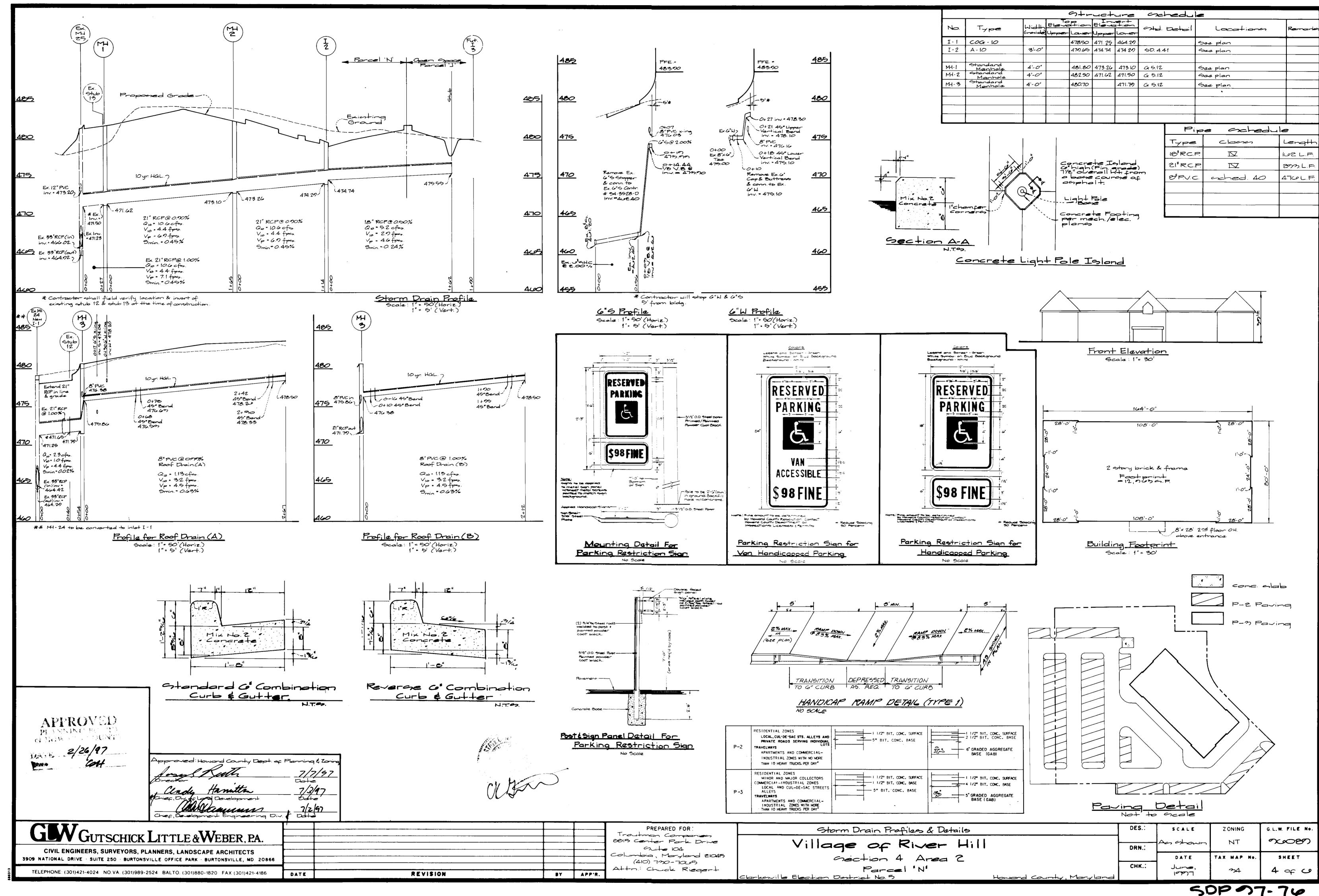
Columbia, Md 21045

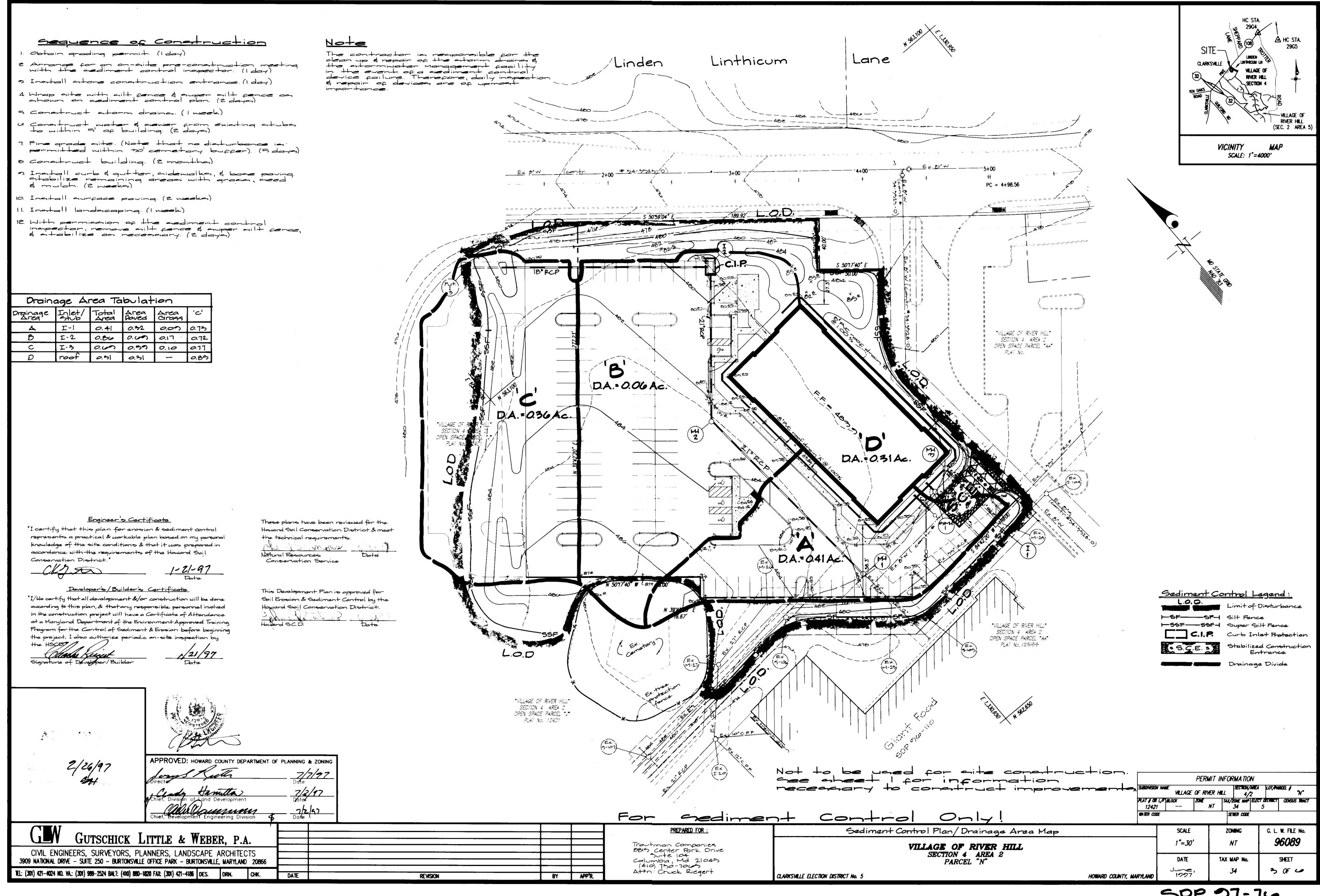
(410) 730-7000

Attn: Chuck Riegert

Sediment Control Details & Notas VILLAGE OF RIVER HILL SECTION 4 AREA 2
PARCEL "N" PARCEL

SCALE ZONING G. L. W. FILE No. 96069 1"=30" NT DATE SHEET TAX MAP No. 5 OF CO HOWARD COUNTY, MARYLAND





A. Plant Materials

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

Plant Names

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

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 as AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth 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 as the location of this project for at least two years before planting. Neither heeled-in plants nor 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 the ARC.

- a. Caliper measurements shall be taken six inches (6") above grade for trees under four-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 3-33" caliper, 14'-15' in height.
- d. Minimum size for planting minor or intermediate focus trees (pines, crabapples, etc.) shall be 3"-33" caliper, 10'-12' in height.
- e. Minimum size for planting shrubs shall be 18" - 24" spread unless noted otherwise.
- f. Caliper, height, spread and size of ball shall be generally as follows:

| CALIPER | HEIGHT | SPREAD | SIZE OF BALL |
|---|--|--|---|
| $3'' - 3\frac{1}{2}''$ $3\frac{1}{2}'' - 4''$ $4\frac{1}{2}'' - 5''$ $5'' - 5\frac{1}{2}'' - 6''$ | 14'-16' 14'-16' 16'-18' 16'-17' 16'-20' 18'-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 Standards".

4. Plant Identification

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

5. Plant Inspection

AFROVED PLANN SHARD of William AND ATY

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 source of origin.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Engineering Division Hamilla

B. Planting Methods

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

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 continued during the winter months providing there is no frost in the ground and frost-free topsoil 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 moist. No frozen or wet topsoil shall be used at any time.

2. Digging

All plant material 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 schedule:

- 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 schedule
- 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.
- Diameter and depth of tree pits shall generally be as follows:

| PLANT SIZE | ROOT BALL | PIT DIAMETER | PIT <u>DEPTH</u> |
|---------------|-----------|-----------------|---------------------|
| 3" - 3½" cal. | 32" | 64" | 28" |
| 3½"- 4" cal. | 36" | 72" | 32" |
| 4" - 4½" cal. | 40" | 80 " | 36" |
| 4½"- 5" cal. | 4411 | 88" | 40" |
| 5" - 5½" cal. | 48" | 96" | 44" |
| 5½"- 6" cal. | 52" | 104" | 48" |

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra topsoil. The tabulated pit sizes are for purposes 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" rough sawn oak or similar durable woods, or lengths, minimum 7'-0" for major trees and 5'-0" minimum for minor trees.
- 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. For trees over 5" caliper, provide 3/16", 7 strand cable cadmium plated steel, with galvanized "eye" thimbles of wire and hose on trees up to 3" in caliper.
- c. Hose: 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 Detail". All trees over 3" 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 or 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 dressing.
- b. All trenches and shrub beds shall be edged and cultivated to the lines shown on the drawing. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated areas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine pockets.
- c. After cultivation, all plant materials shall be mulched with a 2" layer of fine, shredded pine bark, peat moss, or another approved 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 proceeding 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 period.

- a. For this purpose, the "growing season" shall be that period between the end of the "Spring" planting season, and the commencement of the "Fall" planting season.
- 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.

Sodding

Quant:

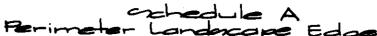
All sodding shall be in accordance to the "Landscape Specification Guidelines for Baltimore-Washington metropolitan Areas" latest edition, approved by the Landscape Contractors Association of Metropolitan Washington and the American Society of Landscape Architects.

All sod shall be strongly rooted sod, not less than two years old and free of weeds and undesirable native grasses. Provide 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, Victa, or

| | Plant Schedule | | |
|---------|-------------------------|------|---------|
| | Name (Botanical/Common) | Size | Ramarks |
| Traces: | | | |

| 22 | Z5 | zelkova cerrata Village Greeny Village Green Zelkova | e/e-n/cal. 12-14 ht. | BEP PP *cmm7 |
|----|----|---|-------------------------|-----------------|
| | | | | |

| Ornama | ntales : | | | |
|----------|-----------|---|----------------------|---------------------------------------|
| ٦ | 50 | Prunus sargentii/ Sargent Cherry | 2½-3"cal 8-10'ht. | B&B |
| Evergree | en Treas | · · | | |
| - | | Pices abies/Normay Spruce | 8-10 ht | B&B |
| 12 | PS | Pinus Strobus/ Eastern White Pina | 8-10'ht | 5&5 |
| Shrubs 8 | a Groun | nd Covares: | | |
| 4 | | Osmanthus ilicifolia 'Gulftida'/ Sweat Holly | 24 - 50 " | #5 containar |
| 40 | AZ | Delaware Valley White Azala (Kurume Variety) | 18.24" | *5 container plant@ 24-30°o. |
| M100 | НН | Hadara Halix/English Ivy | 6-8" | plant@8'o.c. |
| CCO | <i>c0</i> | Cotoneanter dammeri Coral Beauty/Coral Beauty cotoneanter | 10-24 | #5 container plant e ca-no o.c. |
| 4~ | .10 | huminana a alainan a ia | 1 .01 | ا سد |



| | | | torancape tage | | | | | |
|---|---------------|-----------------------------|--|--|--|--|--|--|
| category | Adjac Road | ent to | Adjacent to Perimeter Properties | | | | | |
| landercape Type | 'E' | - <u>1</u> 5 | | | | | | |
| Linear Feet of Roadway Frontage/Perimeter | 125 | 115' | / | | | | | |
| Credit for Ex. Vegetation (Year, No, Linear Feet) (Deacribe below if needed) | | 0 | 1 | | | | | |
| Credit for Wall, Force or bon (Yen, No, Linear Feet) (Describe below if needed) | l | | N/A Internal Parcel | | | | | |
| Number of Plants Require Ohade Trees (6t.) Evergreen Trees Ohnubes | 3 | 2 3(≈15 51:) | | | | | | |
| Number of Plants Provide chade Trees Evergreen Trees conrubes (10:1 aubest.) Other Trees (2:1 aubest.) (Describe plant subest. credites below if recessory) | Comp | ndie dience | | | | | | |

3 che A total equ. chade tree rea. = 10

Parking Lot Internal Landercapine lumber of Parking Spaces 27 Number of Trees Required 5 Number of Trees Pravided shade trees Alternative other trees (2:1 aulos) compliance

Note: Schedules C& D are N/A

Planting Required by HXD

1.79 ac e 24 shade tree/ac = 47 shade trees (or equ. up to 50%)

Planting Pravided

chade trees(est) 31 (includes 1) traces per F-96-80 & 50P-96-110)

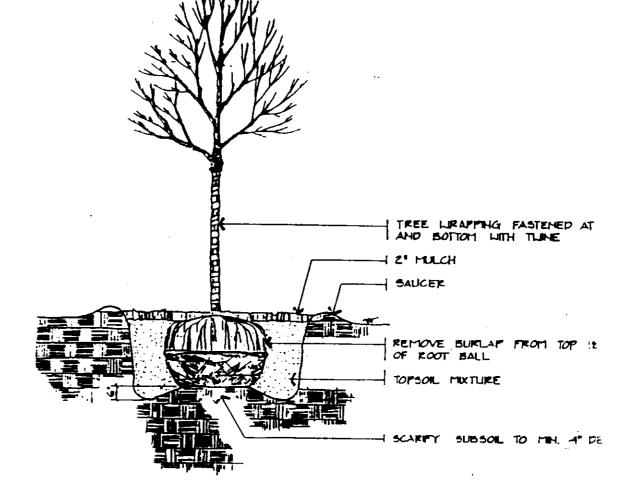
Ornamental trees 7 (35 equ. 'ast') Evergreen trees 22 (11 equ. 'ast.)

455 Equ shade Trees

1. The balance of the required shade tree is pravided by proposed ohrubes & ground coveres.

2. The landacape plan has been prepared in accordance with the alternative compliance provisions of mot. 16.124 of the Howard County Code & the Landscape Manuel.

o Landercape "cachedule A and B is shown for surely purposes only. Financial oursely for the required Landercaping in \$ 150000 This fee will be a part of the grading permit application.



H REMOVE BURLAP FROM TOP 12

--- SCARIFY SUBSOIL TO MIN 4"

THE INITIAL BRANCHING.
RETAINING NATURAL FORM
REMOVE COVERING FROM TO
OF BALL

FIRST LATERAL ROOT FLUSH WITH FINISHED GRADE

FINISHED GRADE

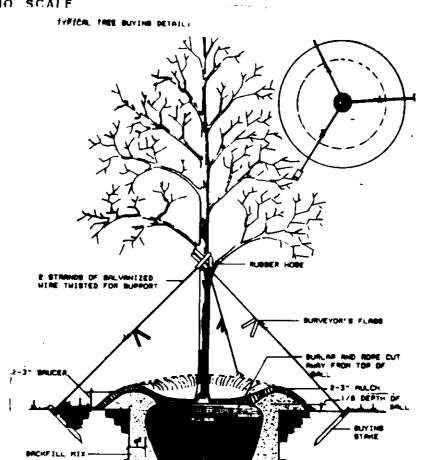
UT EDGE OF BED VERTICALLY

TOPSOIL MIXTURE

NO SCALE

TYPICAL B&B SHRUB PLANTING

TYPICAL DECIDUOUS TREE PLANTING



GWGUTSCHICK LITTLE & WEBER, PA.

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866 TELEPHONE: (301)421-4024 NO.VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

REVISION SY APP'R.

PREPARED FOR: Troutman Companies 8815 Center Park Drive, Suite 104 Columbia, Maryland 21045 Phone: (410) 730-7065 Attn.: Chuck Riegart

Landscape Notes & Datails DES.: SCALE ZONING G.L.W. FILE No. 1" - 30" 96089 NT Village of River Hill DRN.: hlc. Section 4, Area 2 DATE TAX MAP No SHEET CHK.: Parcel 'N' June, 6 of 6 1007 Clarksville Election District No. 5 Howard County, Maryland