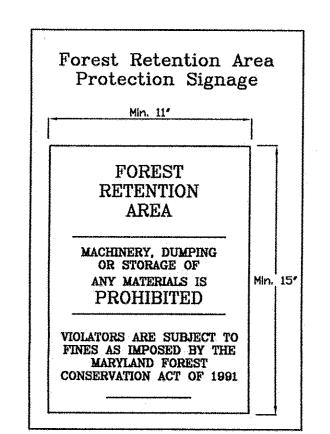


BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
ROOT DAMAGE SHOULD BE AVOIDED. PROTECTIVE SIGNAGE MAY ALSO BE USED, DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION, TREE PROTECTION FENCE DETAIL

NOT TO SCALE

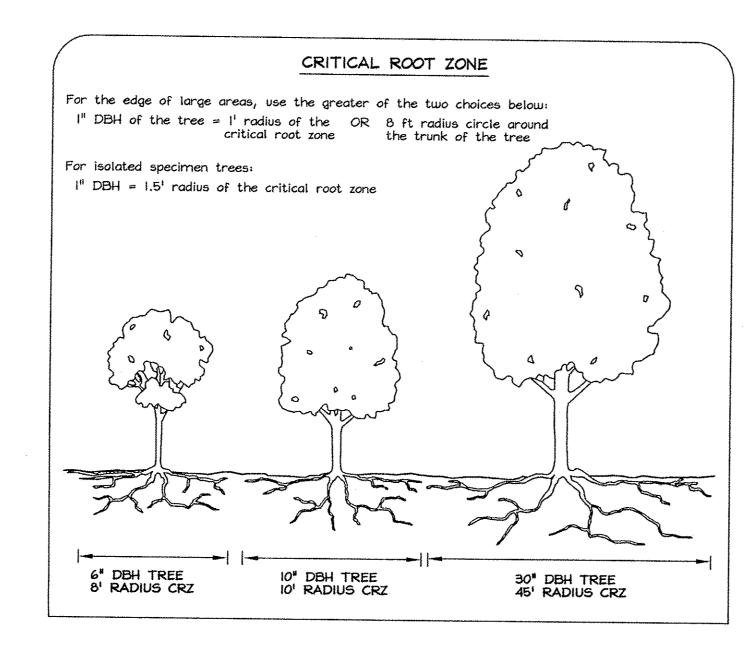
Forest Retention Management Notes

- 1. All proposed activities shall adhere to the conditions, schedules and
- terms of an approved sediment control and erosion plan. 2. After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on-site, a preconstruction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate County inspectors shall attend.
- 3. Tree protection for all retained areas:
- a. All retention areas within 50 feet of proposed construction activities shall be protected by highly visible, well anchored temporary protection devices (silt fence or blaze orange plastic mesh).
- b. All protection devices shall be in place prior to any grading or land
- c. All protection devices shall be properly maintained and shall remain in place until construction has ceased.
- d. Attachment of signs, fencing or other objects to trees is prohibited.
- e. No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas.
- 4. If the critical root zone (see detail) is affected by construction activities such as grade change, digging for foundations and roads or utility installation:
- a. Prune roots with a clean cut using proper pruning equipment (see root pruning detail)
- b. Water and fertilize as needed.
- 5. During construction phase, monitor and correct condition of retained trees for: soil compaction, root injury, flood conditions, drought conditions and other stress signs.
- 6. Post-Construction Phase
- a. Inspect existing trees around the perimeter of disturbed limits for evidence of soil compaction, root injury, limb injury, or other stress signs and correct with proper management techniques such as root or limb pruning, soil aeration, fertilization, crown reduction or watering. Inspection and evaluation shall be performed by a licensed arborist.
- b. Inspect for dead or dying trees or 11mbs which may pose safety hazard and remove.
- c. No burial of discarded materials will occur onsite within the conservation areas.
- d. No burning within 100 feet of wooded area.
- e. All temporary forest protection structures will be removed after
- f. Following completion of construction, prior to use, the County inspector shall inspect the entire area.



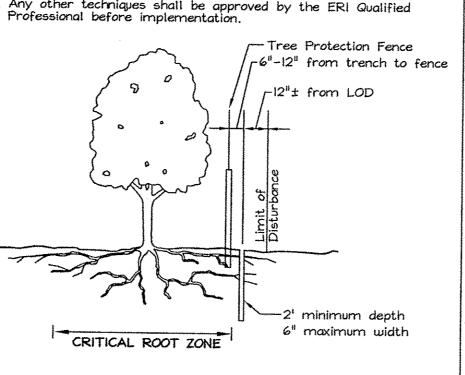
SIGN DETAIL: PERMANENT SIGN SIGNAGE NOTE: ALL TREE PROTECTION SIGNS SHALL BE PLACED ON METAL 'T' POSTS OR PRESSURE TREATED WOOD POLES. NO ATTACHMENT OF SIGNS TO TREES IS PERMITTED. Signs shown for example only, actual sign may vary.

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ROOT PRUNING

- Retention areas shall be set prior to construction
- 2. Boundaries of retention areas shall be flagged, and location of trench shall be specified by ERI Qualified Professional.
- 3. Roots shall be cut cleanly with root pruning equipment. Where roots XI" are found, trenching shall be done by air spade or hand tools. Roots XI" shall be cut with a hand saw.
- 4. Trench shall be immediately backfilled with soil removed or high organic content soil.
- 5. Any other techniques shall be approved by the ERI Qualified



Soil Protection Zone Notes

- 1. The Soil Protection Zone shall include all areas contained outside the
- Limit of Disturbance. 2. Where possible, the Soil Protection Zone shall extend to the drip line of specimen trees. For other groups of trees, the zone shall be the drip line or 40% of the height of the tree, whichever is greater.
- 3. No construction activity is permitted within the Soil Protection Zone.
- 4. If soil has been compacted or grading has taken place in the vicinity of the Soil Protection Zone, root pruning shall be implemented per Root Pruning detail, shown on this plan.
- 5. Root pruning shall occur prior to the beginning of construction.
- 6. Where the Limit of Disturbance must encroach inside the Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial trenching, or another method approved by the ERI Forest Conservation Professional.
- 7. Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative
- treatment or removal. 8. Tree maintenance and removal shall be undertaken by a qualified Maryland Tree Expert to ensure damage to surrounding trees is
- 9. Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could

impact otherwise unprotected Critical Root Zone.

FOREST STAND DELINEATION /
FOREST CONSERVATION PLAN DETAILS CHAPEL WOODS 11, LOT 17

TAX MAP 29 GRID 7 5TH ELECTION DISTRICT

PARCEL 68 HOWARD COUNTY, MARYLAND



EXPLORATION RESEARCH, INC. ENVIRONMENTAL CONSULTANTS LANDSCAPE ARCHITECTS 6339 HOWARD LANE ELKRIDGE, MARYLAND 21075 TEL: (410) 567-5210 FAX: (410) 796-1562

DESIGN BY: ____ DRAWN BY: SMM CHECKED BY: SLH SCALE: not to scale DATE: Apr. 18, 2011 W.O. No.: 2559 SHEET No.: 2 OF 2

