

TREE CONSERVATION PLAN II
SHEET INDEX

| | |
|--------------|--|
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LANDSBAY: SDP: TCP II: A: 0308 10903 B: 0308 10903 C: 0610 10903 D: 0610 10903 E: 0610 10903 F: 0308 10903 G: 0308 10903 H: 0308 10903 I: 0308 10903 J: 0308 10903 K: 0417 5705 L: 0417 5705 M: 0417 5705 N: 0610 5404 O: 0610 5404 P: 0610 5404 Q: 0610 5404 R: 0610 5404

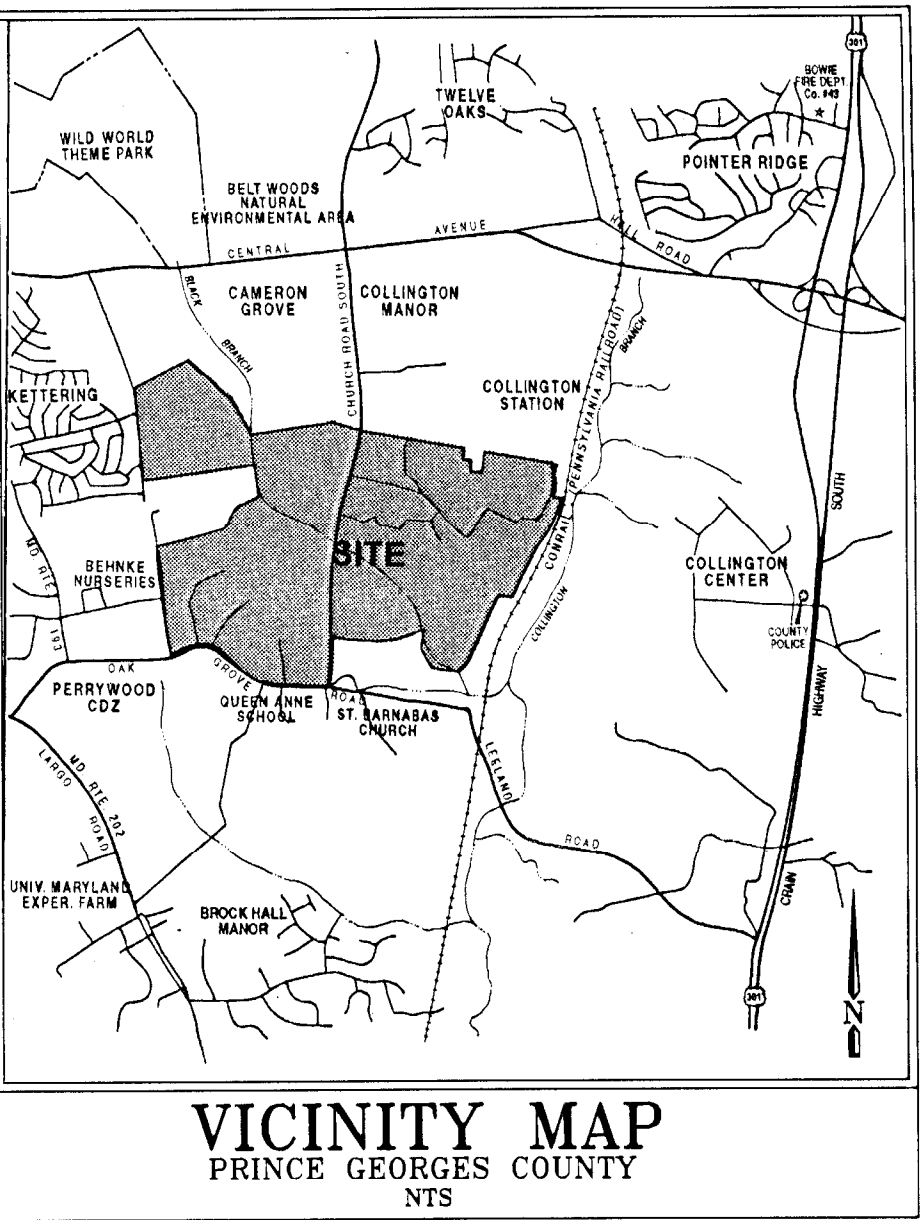
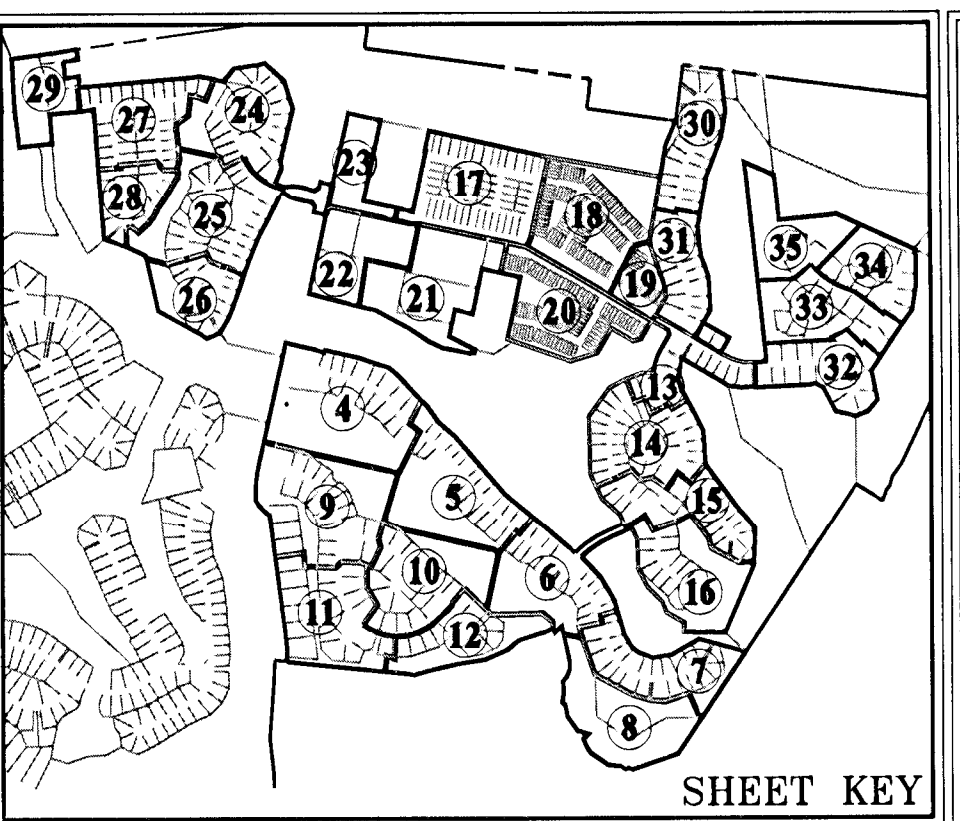
LIBER/TOPO REF. L/E PARCELS ACRES

| | | | |
|-------------------------------|-----------------|---------|--------|
| OWNER | LIBER/TOPO REF. | PARCELS | ACRES |
| ALBERT TURNER ET. AL. | 3899/843 | 53 | 4.00 |
| ALBERT TURNER ET. AL. | 3899/843 | 53 | 56.66 |
| ALBERT TURNER ET. AL. | 3899/843 | 53 | 9.89 |
| M.C.D. EMPLOYEES ASSOCIATES | 4035/283 | 31 | 27.45 |
| ALBERT TURNER ET. AL. | 5550/191 | 3 | 44.00 |
| ALBERT TURNER ET. AL. | 5550/191 | 3 | 210.31 |
| ALBERT TURNER ET. AL. | 5550/191 | 10 | 208.97 |
| ALBERT TURNER ET. AL. | 5550/191 | 3 | 6.02 |
| ALBERT TURNER ET. AL. | 5550/191 | 10 | 1.00 |
| PAUL A. BARTON ET. AL. | 5134/347 | 32 | 2.54 |
| ALBERT TURNER ET. AL. | 5819/210 | 32 | 57.50 |
| MARTHA BEALL ET. AL. TRUSTEES | 9639/841 | 2 | 3.00 |
| MARTHA BEALL ET. AL. TRUSTEES | 9639/841 | 2 | 255.12 |

NOTE: ALL UNDISTURBED AREAS MUST BE FIELD INSPECTED WITH MNCPPC AND THE CONTRACTOR PRIOR TO PLANTING TO DETERMINE BOTH THE NEED FOR AND METHODS OF INVASIVE SPECIES CONTROL, AND THE POSSIBILITY OF REDUCTION IN THE NUMBER OF TREES TO BE PLANTED BASED UPON ANY NATURAL REGENERATION WHICH MAY HAVE OCCURRED WITHIN THE PLANTING AREAS.

NOTE: PRIOR TO CONSTRUCTION OF ANY TRAIL ON LAND TO BE DEDICATED TO MNCPPC, THE PROPOSED LOCATION SHALL BE FIELD LOCATED AND APPROVED BY MNCPPC PARKS DEPARTMENT. FOR ALL OTHER TRAILS THE PROPOSED LOCATION SHALL BE FIELD LOCATED AND APPROVED BY ENVIRONMENTAL PLANNING SECTION AND THE DER INSPECTOR.

SEE SHEET 2 FOR FOREST CALCULATIONS TABLES.



GENERAL NOTES - PHASE I

| | |
|-----------------------------|--|
| Zone | J-A-C & R-L |
| Existing Water Service Area | W-4C |
| Existing Sewer Service Area | S-3 |
| Proposed Sewer | Public |
| Council District | 6 |
| Tax Map Reference | 49-73-78-77 |
| WSSC Map Reference | 2011E121/3, 201SE121/3 |
| Basic Plan Reference | A8427, A8578 |
| CDP Reference | CDP-9902, CDP-9903 |
| Preliminary Plan Reference | 64-01032 |
| Planning Area | Bowie/Collington |
| Boundary | Survey by Charles P. Johnson & Associates, Inc. & M-K Enterprises |
| Topography | Two Foot Aerial |
| Wetlands | Delimited by McCarthy & Assoc. Corps of Engineers permit #02-N1-0257/200264343 |

- In no event shall the maximum number of dwelling units exceed 1,095 in the R-L zone or 52 in the J-A-C zone.
- This development proposes private streets pursuant to section 24-123(b)(14) of the subdivision regulations. Other than the streets or other public ways or easements that are in keeping with the overall development scheme may be located within these street rights of way. The use of private roads in this subdivision is approved by the City of Bowie on February 11, 2008.
- There are no known easements on this site.
- All golf cart paths shall be field located in consultation with the Environmental Planning Section.
- On-street parking shall be prohibited throughout the proposed development.
- Public utilities shall be located in the event position on site.
- All existing structures to be removed unless otherwise noted on plan.
- All building setbacks are conceptual unless building lines are shown.
- This plan should not be used as a legal document for representation of bearings, distances, lot square footages and easements. For recorded information, please see record plats or applicable recorded documents.
- There are no wetland mitigation areas within this Phase.
- The A-44 right-of-way shown on previously approved plans has been removed pursuant to City of Bowie CR11-2008 adopted by the Bowie City Council on February 11, 2008.
- This site is subject to RFA Conditions and Permit Triggers.
- Minimum residential square footage is 2,200 square feet.
- This plan covers stormwater management concept approvals as follows:
Overall project: #6587-2001-001 (1/10/2008-complete)
Landbay A - #2867-2002-00 (3/10/2008-complete)
Landbay B - #2719-2004-00 (5/4/2013)
Landbay C - #2723-2004-02 (5/4/2013)
Landbay D - #2335-2004-00 (3/10/2008-complete)
Landbay E - #2345-2004-01 (10/1/2012)
Landbay F - #2355-2003-02 (3/10/2008-complete)
Landbay G - #2305-2003-03 (5/4/2013)
Landbay H - #2305-2003-03 (5/4/2013)
Landbay I - #2305-2003-03 (5/4/2013)
Landbay J - #2305-2003-03 (5/4/2013)
This SGP is subject to a declaration of covenants and restrictions recorded in Liber 20001 at Folio 120.
- A declaration of covenants and access easement for bus service was recorded in Liber 20319 at Folio 118. Bus service was approved by Planning Board memorandum dated 9 November 2012. Prior to permits, a final plat shall be recorded pursuant to Sect on 24-106(a)(3) for a lot line adjustment that incorporates the entire Mary Bowie Lane line within Part of Parcel A and re-aligns the 10-foot PLUE on Parcel 24 and Parcel PP.

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP II-109-03

| Approved by | Date | DRD # | Reason for Revision |
|-------------------|----------|-------------|---|
| 00 JOHN MARKOVICH | 04/15/04 | SDP-0308 | Approval of Landbays A, B, C, I & J |
| NA | 03/18/15 | SDP-0308-01 | Fencing, lot lots: staff level approval |
| 01 K. FINCH | 10/10/06 | SDP-0308-02 | Remove A-44 R/W, Malboro clay |
| 02 K. FINCH | 07/10/07 | SDP-0308-03 | Revise FMA in Landbay "J" |
| NA | 04/17/08 | SDP-0308-04 | Architectural revision: staff level |
| NA | 02/04/09 | SDP-0308-05 | Urban Design revision: staff level |
| 03 K. FINCH | 10/07/10 | SDP-0810 | Add Landbays D and E |
| 04 K. FINCH | 07/11/13 | SDP-0308-06 | Slip lane to GC, Sewer outfall in D & E |
| 05 K. FINCH | 07/11/13 | SDP-0308-07 | Revisions to LOD for Trail & bridge |

TREE CONSERVATION PLAN CERTIFIED BY:

09/17 *Samir Hossain*

Date: 09/17/17, 09/17/17, 09/17/17
09 Registered Location: A-10101, #012

Seal not valid without signature

THIS BLOCK IS FOR OFFICIAL USE ONLY. ON JUNE 1, 2017, THIS PLAN MEETS THE CONDITIONS OF FINAL APPROVAL BY THE PLANNING BOARD, ITS DESIGNEE OR THE DISTRICT COUNCIL.

M-NCPPC APPROVAL

PROJECT NAME: OAK CREEK CLUB-PH 1

PROJECT NUMBER: SDP-0308-07

FOR CONDITIONS OF APPROVAL, SEE SITE PLAN COVER SHEET OR APPROVAL SHEET. REVISION NUMBER MUST BE INCLUDED IN THE PROJECT NUMBER.

PLANNER/ENGINEER/SURVEYOR
CHARLES P. JOHNSON AND ASSOCIATES
1751 ELTON ROAD
SILVER SPRING, MARYLAND 20903 • (301) 434-7000

DEVELOPER
NVR MS CAVALIER OAK CREEK OWNER, LLC
11700 PLAZA AMERICA DR. SUITE 310
RESTON, VA 20190 • (703) 649-5100

LEGAL COUNSEL
LAW OFFICES OF NORMAN D. RIVERA, LLC
1751 MELFORD BOULEVARD • SUITE 200
BOWIE, MARYLAND 20715 • (301) 352-4973

ENVIRONMENTAL CONSULTANT
MCARTHY AND ASSOCIATES
14458 OLD MILL ROAD • SUITE 201
UPPER MARLBORO, MARYLAND • (301) 627-7505

M.N.C.P.P.C. APPROVALS

| Approval or Revision # | Approval Date | Reviewer's Signature | Certification Date |
|------------------------|---------------|----------------------|--------------------|
| 01 | 11-01-07 | RUTH GROVER | 10-13-10 |
| 01 | 01-08-15 | | |

If this Approval Block has been duplicated or modified in any way by digital or other methods of reproduction, the signature of a licensed engineer, architect or landscape architect below guarantees the plans are the approved certified plans.

Signature: _____
Title: _____

M.N.C.P.P.C. APPROVALS

| Approval or Revision # | Approval Date | Reviewer's Signature | Certification Date |
|------------------------|---------------|----------------------|--------------------|
| 02 | 11-10-06 | RUTH GROVER | 05-03-04 |
| 06 | 06-26-13 | RUTH GROVER | 07-12-13 |
| 06 | 06-26-13 | EPS | |

If this Approval Block has been duplicated or modified in any way by digital or other methods of reproduction, the signature of a licensed engineer, architect or landscape architect below guarantees the plans are the approved certified plans.

Signature: _____
Title: _____

UPDATES/REVISIONS:

| | | |
|----------|---|-----|
| 01/15/07 | ADD LANDBAY D & E TO TCP 109/03 | RPI |
| 08/31/10 | SUBMIT FOR FINAL REVIEW OF TCP 109/03-03 | SPS |
| 09/21/10 | SUBMIT FOR CERTIFICATION OF TCP 109/03-03 | SPS |
| 04/03/13 | UPDATE CLUBHOUSE & MARY BOWIE PARKWAY | SPS |
| 07/13/13 | SUBMIT FOR CERTIFICATION OF SDP-0308/05, APPROVAL OF SLP-LANE | SPS |
| 02/23/15 | REVISE PER CONDITIONS OF SDP-0810/01 APPROVAL | SPS |

UPDATES/REVISIONS:

| | | |
|----------|---------------------------------|-----|
| 08/20/03 | ADDRESSED R&P COMMENTS | MLB |
| 09/23/03 | ADDRESSED REFERRAL COMMENTS | SPS |
| 11/20/03 | ADDRESSED SDP APPROVAL COMMENTS | MLB |
| 02/28/04 | SUBMIT DRAFT SIGNATURE SET | MLB |
| 03/24/08 | UPDATE PER REVISIONS TO SDP | MLB |
| 11/3/08 | UPDATE OVERALL LAYOUT | RPI |

UPDATES/REVISIONS:

| | | |
|----------|--------------------------------------|-----|
| 07/25/16 | UPDATE TO REFLECT CHURCH ROAD DESIGN | SPS |
| 01/03/17 | REMOVE PARK PARCEL 1 | SPS |

TCP II - 109 - 03 - COVER SHEET

OAK CREEK CLUB

QUEEN ANNE (7TH) ELECTION DISTRICT

PRINCE GEORGE'S COUNTY, MARYLAND

CPI Charles P. Johnson & Associates, Inc.
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
175 ELTON ROAD SUITE 300 SILVER SPRING, MARYLAND 20903
Phone: (301) 434-7000 E-mail: cpi@cpia.com Fax: (301) 434-9394
FREDERICK, MD FAIRFAX, VA

CLIENT: NVR MS CAVALIER OAK CREEK OWNER, LLC
3100 PLAZA AMERICA DR.
SUITE 310
RESTON, VA 20190

PRELIMINARY PLAN NO: 4-00332 SITE PLAN NO: SDP-0308 & SDP-0610

DISTION SPS SHEET 1 35

DRAFT RPI OF

DATE OCT 2007 FILE NO: 31-102-225 D


SCALE: 1"=300'

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| Parcel ID | Parcel Size | School Park Site Fees | Total |
|--------------|----------------|--------------------------|---------|
| 57 | 4.34 | 26.40 | \$17.85 |
| 64 | 0.00 | 0.00 | 16.50 |
| 60 | 4.00 | 26.40 | \$39.25 |
| 61 | | | 442.75 |
| 64 | | | 12.23 |
| 62 | | | \$19.37 |
| 65 | | | 3.66 |
| 60 | | | 1.56 |
| 60 | | | 18.00 |
| 60 | | | 2.95 |
| 37 | | | |
| 66 | | | |
| 60 | | | |
| 61 | | | |
| 19 | | | |
| 60 | | | |
| 19 | | | |
| 60 | | | |
| 61 | | | |

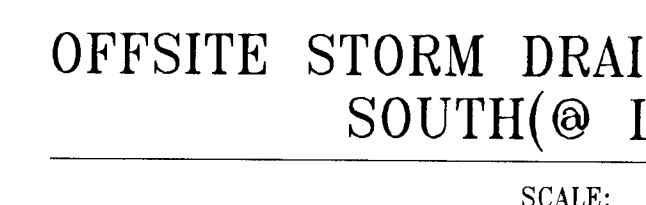
| | | Total |
|----|--|--------|
| 22 | | 178.92 |
| 37 | | 76.42 |
| | | 0.00 |
| | | 0.00 |
| | | 0.00 |
| | | 0.00 |
| | | 0.12 |
| 38 | | 35.98 |
| | | 18.33 |
| | | 2.95 |
| 40 | | 312.43 |
| | | |
| 37 | | 3.51 |
| 46 | | 408.64 |
| 5 | | |

of COE Permit #02-NT-0257/200264343.

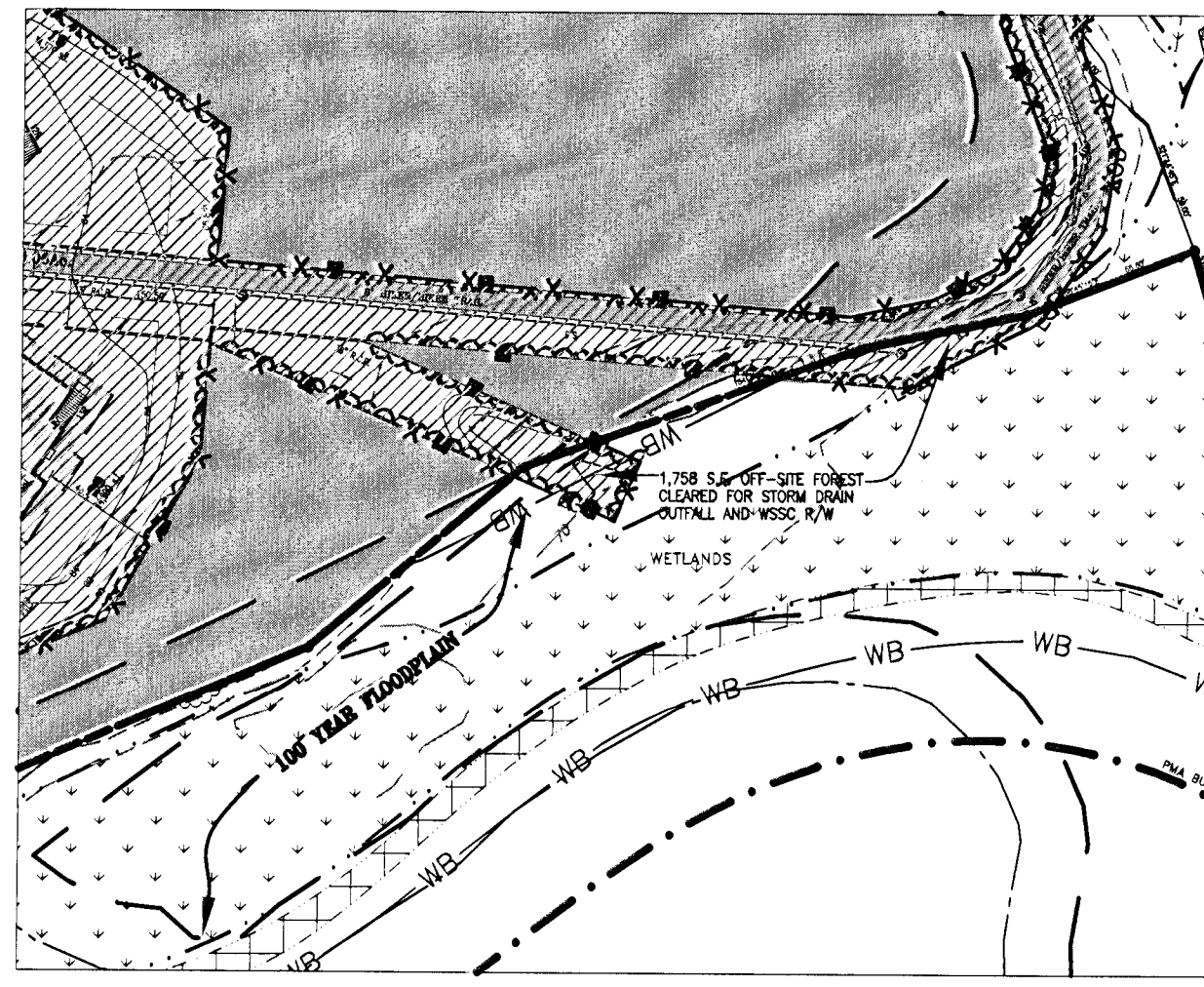


The map shows a cross-section of the floodplain area. Key features include:

- 100 YEAR FLOODPLAIN**: A large area labeled in the center.
- WEB**: A label on the right side, possibly indicating a water body or a specific geological unit.
- CLAY**: A label on the left side, indicating a clay deposit.
- SHALE**: A label on the left side, indicating a shale deposit.
- SAND**: A label on the left side, indicating a sand deposit.
- GRAVEL**: A label on the left side, indicating a gravel deposit.
- COBBLES**: A label on the left side, indicating a cobble deposit.
- CONCRETE**: A label on the left side, indicating a concrete structure.
- BRICK**: A label on the left side, indicating a brick structure.
- WOOD**: A label on the left side, indicating a wooden structure.
- IRON**: A label on the left side, indicating an iron structure.
- COPPER**: A label on the left side, indicating a copper structure.
- ZINC**: A label on the left side, indicating a zinc structure.
- LEAD**: A label on the left side, indicating a lead structure.
- ARSENIC**: A label on the left side, indicating an arsenic structure.
- CHROMIUM**: A label on the left side, indicating a chromium structure.
- NICKEL**: A label on the left side, indicating a nickel structure.
- CADMIUM**: A label on the left side, indicating a cadmium structure.
- MERCURY**: A label on the left side, indicating a mercury structure.
- COBALT**: A label on the left side, indicating a cobalt structure.
- SELENIUM**: A label on the left side, indicating a selenium structure.
- ANTIMONY**: A label on the left side, indicating an antimony structure.
- GERMANIUM**: A label on the left side, indicating a germanium structure.
- ASBESTOS**: A label on the left side, indicating an asbestos structure.
- PCB**: A label on the left side, indicating a polychlorinated biphenyl structure.
- Dioxin**: A label on the left side, indicating a dioxin structure.
- DDT**: A label on the left side, indicating a DDT structure.
- Endrin**: A label on the left side, indicating an endrin structure.
- Heptachlor**: A label on the left side, indicating a heptachlor structure.
- Alachlor**: A label on the left side, indicating an alachlor structure.
- Carbofenthrin**: A label on the left side, indicating a carbofenthrin structure.
- Permethrin**: A label on the left side, indicating a permethrin structure.
- Spinosad**: A label on the left side, indicating a spinosad structure.
- Imidacloprid**: A label on the left side, indicating an imidacloprid structure.
- Thiamethoxam**: A label on the left side, indicating a thiamethoxam structure.
- Acetamiprid**: A label on the left side, indicating an acetamiprid structure.
- Flupyradifurone**: A label on the left side, indicating a flupyradifurone structure.
- Chlorpyrifos**: A label on the left side, indicating a chlorpyrifos structure.
- Malathion**: A label on the left side, indicating a malathion structure.
- Disulfoton**: A label on the left side, indicating a disulfoton structure.
- Phosphamidon**: A label on the left side, indicating a phosphamidon structure.
- Terbufos**: A label on the left side, indicating a terbufos structure.
- Triphenylethylene**: A label on the left side, indicating a triphenylethylene structure.
- Triphenylmethane**: A label on the left side, indicating a triphenylmethane structure.
- Triphenylamine**: A label on the left side, indicating a triphenylamine structure.
- Triphenylphosphine**: A label on the left side, indicating a triphenylphosphine structure.
- Triphenylborane**: A label on the left side, indicating a triphenylborane structure.
- Triphenylsilane**: A label on the left side, indicating a triphenylsilane structure.
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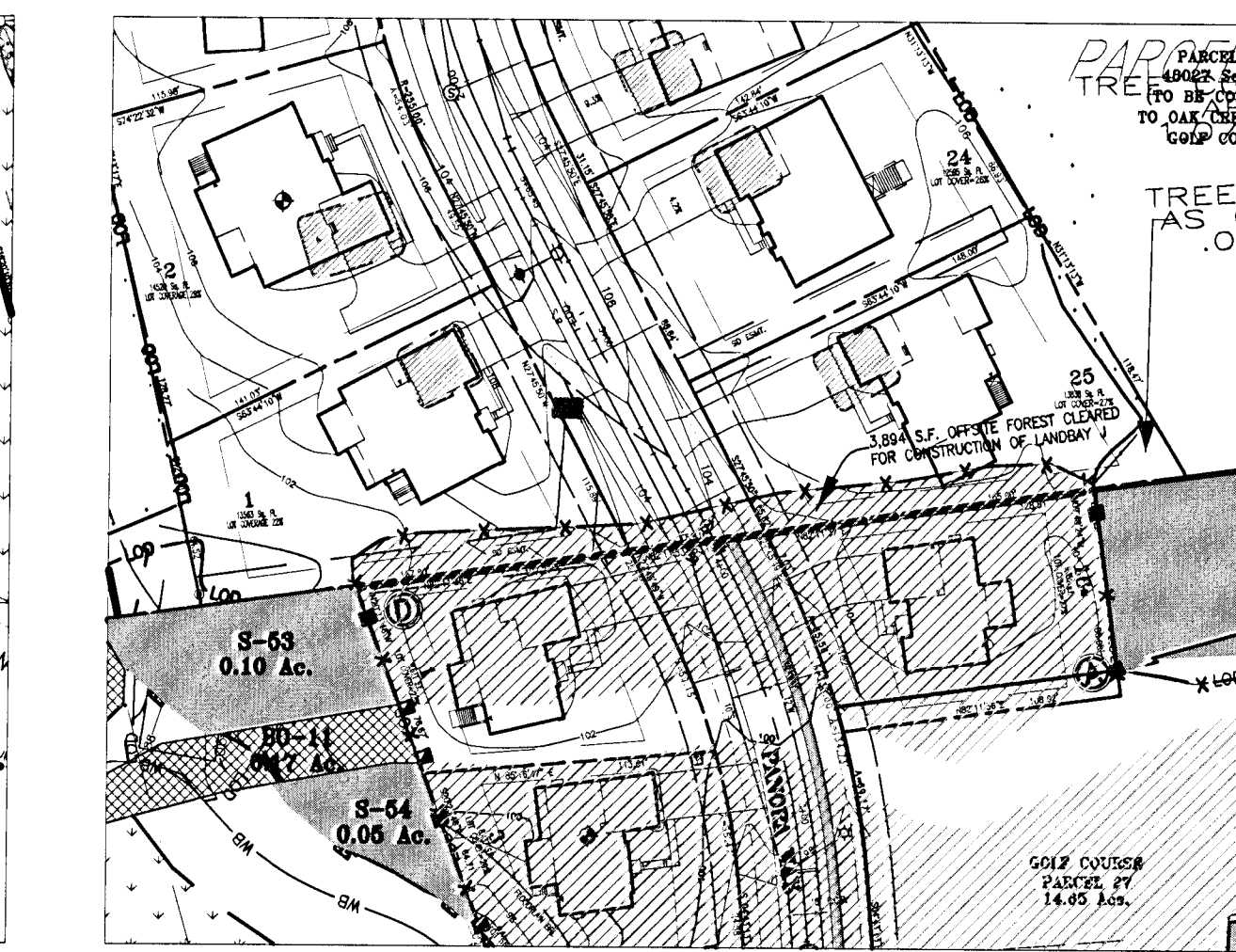


| PARCEL | USE | NEIGH-BORHOOD | SHEET # | AREA (sq ft) | AREA (Ac.) | EXISTING FOREST (sq ft) | RETAINED FOREST (sq ft) | CLEARED FOREST (sq ft) | RETAINED FOREST W/IN F (sq ft) | RET. FOREST W/IN F (sq ft) | W.C.A. (sq ft) | W.C.A. (Ac.) |
|--------|--------|---------------|-----------------|--------------|------------|-------------------------|-------------------------|------------------------|--------------------------------|----------------------------|----------------|--------------|
| A | H/OA | ROAD | A 4 5.6, 6.7 | 239637 | 5.50 | 204813 | 0 | 204813 | 0 | 0 | 0 | 0 |
| B | H/OA | A | 5.9, 6.0 | 19145 | 0.44 | 19145 | 84143 | 101103 | 3297 | 0 | 9116 | 0 |
| C | H/OA | A | 4 | 22661 | 0.51 | 22661 | 4707 | 1675 | 0 | 4707 | 0 | 0 |
| D | H/OA | A | 4 | 18950 | 0.44 | 22250 | 10033 | 6217 | 0 | 10033 | 0 | 0 |
| E | H/OA | A | 7 | 2561 | 0.06 | 2069 | 0 | 2069 | 0 | 0 | 0 | 0 |
| F | H/OA | A | 7 | 2734 | 0.06 | 2124 | 0 | 2124 | 0 | 0 | 0 | 0 |
| G | H/OA | A | 9 | 2391 | 0.06 | 2391 | 0 | 2391 | 0 | 0 | 0 | 0 |
| H | H/OA | A | 9 | 30004 | 0.70 | 30004 | 15183 | 15183 | 4306 | 10876 | 0 | 0 |
| I | MGHPCP | A | 4 5.6, 6.8, 10 | 292924 | 6.71 | 168580 | 145078 | 23364 | 97424 | 470520 | 0 | 0 |
| J | MGHPCP | A | 7 | 14509 | 0.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| K | H/OA | A | 8 | 19644 | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| L | H/OA | A | 8 | 25474 | 0.54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A | H/OA | ROAD | 9 9.10, 11.12 | 167518 | 3.81 | 167518 | 0 | 167518 | 0 | 0 | 0 | 0 |
| A1 | H/OA | B | 9 | 35238 | 0.81 | 35238 | 0 | 35238 | 0 | 0 | 0 | 0 |
| F | H/OA | B | 9 | 14768 | 0.34 | 14768 | 6713 | 6055 | 0 | 6713 | 0 | 0 |
| D | H/OA | B | 12 | 2576 | 0.06 | 2576 | 0 | 2576 | 0 | 0 | 0 | 0 |
| D | H/OA | B | 9.11, 12 | 29357 | 6.70 | 28733 | 247363 | 33962 | 15946 | 24900 | 0 | 0 |
| D | H/OA | B | 9 | 5474 | 0.18 | 5474 | 36087 | 13383 | 0 | 36087 | 0 | 0 |
| E | H/OA | B | 10 | 36484 | 0.81 | 35484 | 34296 | 1186 | 0 | 34296 | 0 | 0 |
| A | H/OA | ROAD | C 13.14, 15.16 | 275356 | 6.29 | 107867 | 0 | 107867 | 0 | 0 | 0 | 0 |
| B | H/OA | C | 13 | 3198 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D | H/OA | C | 15 | 2339 | 0.05 | 806 | 0 | 806 | 0 | 0 | 0 | 0 |
| D | H/OA | C | 18 | 2531 | 0.06 | 2897 | 0 | 2897 | 0 | 0 | 0 | 0 |
| D | H/OA | C | 13 | 1500 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F | H/OA | C | 13 | 1378 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | H/OA | C | 13 | 27232 | 6.27 | 265966 | 221469 | 35897 | 0 | 221469 | 5 | 0 |
| A | H/OA | ROAD | D 30.31 | 57172 | 2.11 | 67526 | 0 | 67526 | 0 | 0 | 0 | 0 |
| G | H/OA | D | 31 | 18063 | 0.42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | H/OA | D | 31 | 2640 | 0.06 | 2640 | 0 | 2640 | 0 | 0 | 0 | 0 |
| A | H/OA | D | 0 | 9778 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A | H/OA | D | 31 | 2734 | 0.06 | 2734 | 0 | 2734 | 0 | 0 | 0 | 0 |
| E | H/OA | E | 22.33, 34.35 | 162125 | 3.70 | 87775 | 0 | 87775 | 72070 | 0 | 0 | 0 |
| B | H/OA | E | 33.34, 35 | 430047 | 9.87 | 333316 | 300540 | 266636 | 16203 | 266636 | 0 | 0 |
| A | H/OA | F | 17 18.19, 19.20 | 126417 | 2.91 | 126417 | 5485 | 11397 | 0 | 5485 | 0 | 0 |
| A | H/OA | F | 17 18.19, 19.20 | 140034 | 3.20 | 27970 | 0 | 27970 | 0 | 0 | 0 | 0 |
| B | H/OA | F | 17 | 4311 | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | H/OA | F | 17 | 4311 | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D | H/OA | F | 17 | 4311 | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | H/OA | F | 17 | 2831 | 0.06 | 1906 | 0 | 1906 | 0 | 0 | 0 | 0 |
| F | H/OA | F | 17 | 2831 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | H/OA | F | 17 | 2831 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H | H/OA | F | 17 | 8206 | 0.19 | 8206 | 0 | 8206 | 0 | 0 | 0 | 0 |
| A | H/OA | ROAD | G 18.19, 20 | 53391 | 1.22 | 330 | 0 | 330 | 0 | 0 | 0 | 0 |
| I | H/OA | G | 18.19 | 48182 | 0.96 | 101489 | 84512 | 16788 | 0 | 16788 | 1 | 0 |
| H | H/OA | H | 20 | 276984 | 6.32 | 17686 | 0 | 17686 | 0 | 0 | 0 | 0 |
| A | H/OA | ROAD | H 21 22.23 | 48957 | 1.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A | H/OA | H | 23 | 53803 | 1.24 | 36598 | 0 | 36598 | 0 | 0 | 0 | 0 |
| K | H/OA | H | 23 | 140225 | 3.22 | 64313 | 45788 | 18885 | 0 | 42220 | 1 | 0 |
| K | H/OA | H | 23 | 75012 | 1.71 | 75012 | 57032 | 17978 | 0 | 54028 | 1 | 0 |
| D | H/OA | H | 21 | 128726 | 2.91 | 69000 | 54291 | 14779 | 0 | 26982 | 54 | 0 |
| F | H/OA | H | 21 | 13136 | 0.30 | 5170 | 0 | 5170 | 0 | 0 | 0 | 0 |
| D | H/OA | H | 21 | 47882 | 1.09 | 5170 | 0 | 5170 | 0 | 0 | 0 | 0 |
| H | H/OA | H | 21 | 17636 | 0.40 | 5170 | 0 | 5170 | 0 | 0 | 0 | 0 |
| I | H/OA | H | 21 | 280347 | 6.44 | 5170 | 0 | 5170 | 0 | 101940 | 79 | 3 |
| 24 | MGHPCP | I | 21 | 5899 | 0.13 | 21502 | 3170 | 21502 | 0 | 21502 | 0 | 0 |
| A | H/OA | ROAD | I 24.25 | 146592 | 3.37 | 18780 | 0 | 18780 | 0 | 0 | 0 | 0 |
| A-1 | H/OA | I | 24 | 42413 | 1.47 | 1630 | 0 | 1630 | 0 | 0 | 0 | 0 |
| C | H/OA | I | 24 | 2618 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | H/OA | I | 24.25 | 363825 | 8.37 | 204168 | 193872 | 68968 | 7963 | 185809 | 8 | 0 |
| A | H/OA | ROAD | J 27.28, 29 | 106578 | 4.15 | 19727 | 0 | 179275 | 0 | 0 | 0 | 0 |
| B | H/OA | J | 28 | 1912 | 0.04 | 1912 | 0 | 1912 | 0 | 0 | 0 | 0 |
| I | MGHPCP | J | 29 | 11093 | 0.25 | 51903 | 35912 | 58012 | 24603 | 114903 | 0 | 0 |
| D | MGHPCP | J | 29 | 85664 | 1.97 | 78074 | 64878 | 13089 | 57549 | 8725 | 0 | 0 |
| F | H/OA | J | 29 | 20053 | 0.46 | 20038 | 13603 | 67051 | 5437 | 6666 | 0 | 0 |



OFFSITE STORM DRAIN OUTFALL LOCATION
SOUTH(@ LANDBAY B)

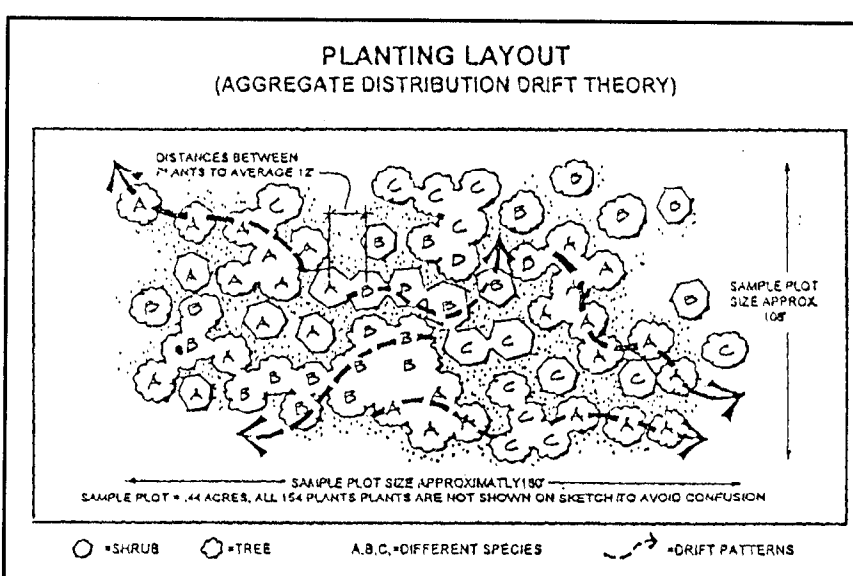
SCALE: 1"=70'




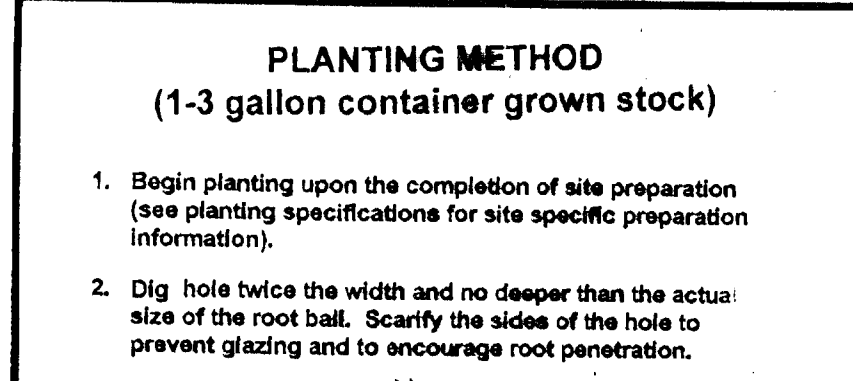
OFFSITE CLEARING FOR LANDBAY J
(@ LANDBAY J & LANDBAY S)

| TOP 100'S SQUADRE PRESERVATION CALCULATIONS | | | | |
|---|----------------|--------------|-------|-------|
| SYM. | WQARE | ACRES | ACRES | SHEET |
| S-1 | 1341 | 0.03 | 0 | 4 |
| S-2 | 10818 | 0.28 | 1 | 4 |
| S-3 | 13434 | 0.11 | 4 | 4 |
| S-4 | 9608 | 0.22 | 4 | 4 |
| S-5 | 16033 | 0.37 | 4 | 4 |
| S-6 | 15032 | 0.34 | 4 | 4 |
| S-7 | 28497 | 0.61 | 4 | 4 |
| S-8 | 4200 | 0.10 | 5 | 4 |
| S-9 | 31107 | 0.71 | 5 | 4 |
| S-10 | 1358 | 0.03 | 5 | 4 |
| S-11 | 3507 | 0.08 | 5 | 4 |
| S-12 | 46875 | 1.06 | 5 | 4 |
| S-13 | 2552 | 0.22 | 6 | 4 |
| S-14 | 5114 | 0.12 | 6 | 4 |
| S-15 | 5654 | 0.01 | 6 | 4 |
| S-16 | 4550 | 0.10 | 6 | 4 |
| S-17 | 12688 | 0.28 | 6 | 4 |
| S-18 | 29440 | 0.67 | 8 | 4 |
| S-19 | 19399 | 1.68 | 8 | 4 |
| S-20 | 8713 | 0.15 | 9 | 4 |
| S-21 | 20353 | 0.69 | 9 | 4 |
| S-22 | 38354 | 0.71 | 9 | 4 |
| S-23 | 17933 | 0.41 | 11 | 4 |
| S-24 | 47199 | 1.08 | 10 | 4 |
| S-25 | 71228 | 1.64 | 10 | 4 |
| S-26 | 34948 | 0.79 | 10 | 4 |
| S-27 | 2708 | 0.62 | 10 | 4 |
| S-28 | 3458 | 0.08 | 11 | 4 |
| S-29 | 56099 | 1.29 | 11 | 4 |
| S-30 | 29315 | 0.68 | 12 | 4 |
| S-31 | 50593 | 1.20 | 12 | 4 |
| S-32 | 2087 | 0.05 | 12 | 4 |
| S-33 | 62655 | 1.44 | 10 | 4 |
| S-34 | 8153 | 0.19 | 12 | 4 |
| S-35 | 88410 | 2.03 | 12 | 4 |
| S-36 | 100731 | 2.31 | 10 | 4 |
| S-37 | 1008 | 0.52 | 12 | 4 |
| S-38 | 94512 | 1.94 | 10 | 4 |
| S-39 | 3990 | 0.09 | 20 | 4 |
| S-40 | 169 | 0.06 | 20 | 4 |
| S-41 | 250 | 0.05 | 20 | 4 |
| S-42 | 10388 | 0.24 | 20 | 4 |
| S-43 | 3773 | 0.09 | 4 | 4 |
| S-44 | 29984 | 0.51 | 21 | 4 |
| S-45 | 1337 | 0.04 | 22 | 4 |
| S-46 | 181068 | 4.18 | 22 | 4 |
| S-47 | 42250 | 0.97 | 23 | 4 |
| S-48 | 68118 | 1.56 | 20 | 4 |
| S-49 | 96307 | 2.26 | 25 | 4 |
| S-50 | 6286 | 0.14 | 20 | 4 |
| S-51 | 3396 | 0.08 | 26 | 4 |
| S-52 | 7693 | 0.16 | 26 | 4 |
| S-53 | 4586 | 0.10 | 29 | 4 |
| S-54 | 1929 | 0.05 | 29 | 4 |
| S-55 | 8187 | 0.17 | 29 | 4 |
| S-56 | 8252 | 0.19 | 29 | 4 |
| S-57 | 1009 | 0.02 | 29 | 4 |
| S-58 | 4197 | 0.09 | 30 | 4 |
| S-59 | 159 | 0.01 | 30 | 4 |
| S-60 | 8804 | 0.18 | 30 | 4 |
| S-61 | 4732 | 0.10 | 30 | 4 |
| S-62 | 926 | 0.21 | 30 | 4 |
| S-63 | 2858 | 0.07 | 34 | 4 |
| S-64 | 57551 | 1.33 | 34 | 4 |
| S-65 | 45210 | 1.04 | 34 | 4 |
| S-66 | 167967 | 3.66 | 34 | 4 |
| S-67 | 8876 | 0.20 | 35 | 4 |
| S-68 | 1033 | 0.02 | 35 | 4 |
| S-69 | 681 | 0.01 | 35 | 4 |
| TOTAL | 2145911 | 69.48 | | |

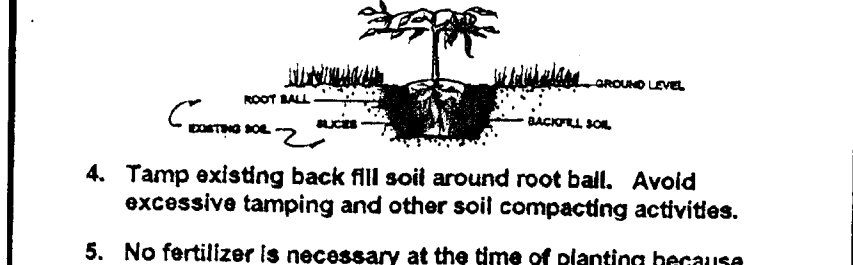
| SPC 108-03 REFORESTATION CALCULATIONS | | | | |
|---------------------------------------|-------------|------------|---------|----|
| SYN. | AREA (S, F) | AREA (Ac.) | SHEET # | |
| UPLAND REFORESTATION | | | | |
| UP-1 | 1972 | 0.03 | 3 | |
| UP-2 | REMOVED | 0.00 | 3 | |
| UP-3A | REMOVED | 0.00 | 3 | |
| UP-3B | 777 | 0.02 | 8 | |
| UP-4 | 8379 | 0.19 | 11 | |
| UP-5 | 10954 | 0.25 | 14 | |
| UP-6 | 21933 | 0.50 | 23 | |
| UP-7 | 25595 | 0.59 | 17 | |
| UP-8 | 19698 | 0.45 | 18 | |
| UP-9 | 5191 | 0.12 | 19 | |
| UP-10 | 4878 | 0.11 | 19 | |
| UP-11 | 3194 | 0.07 | 19 | |
| UP-12 | 27527 | 0.63 | 21 | |
| UP-13 | 85003 | 1.95 | 22 | |
| UP-14 | REMOVED | 0.00 | 23 | |
| UP-15 | 7833 | 0.18 | 25 | |
| UP-16 | 22737 | 0.52 | 25 | |
| UP-17 | 3225 | 0.07 | 25 | |
| UP-18 | 80569 | 1.85 | 33 | |
| UP-19 | REMOVED | 0.00 | 35 | |
| UP-20 | 5662 | 0.13 | 35 | |
| UP-21 | 2797 | 0.06 | 28 | |
| UP-22 | 577 | 0.01 | 30 | |
| UP-23 | 2893 | 0.06 | 30 | |
| SUBTOTAL | 321612 | 7.31 | | |
| BOTTOMLAND REFORESTATION | | | | |
| BO-1 | 1943 | 0.04 | 1 | |
| BO-2 | 285 | 0.01 | 3 | |
| BO-3 | 12752 | 0.29 | 3 | |
| BO-4 | 368 | 0.01 | 3 | |
| BO-5 | 816 | 0.02 | 3 | |
| BO-6 | REMOVED | 0.00 | 3 | |
| BO-7 | REMOVED | 0.00 | 8 | |
| BO-8 | 1125 | 0.03 | 8 | |
| BO-9 | 6766 | 0.02 | 3 | |
| BO-10 | REMOVED | 0.00 | 10 | |
| BO-11 | 7588 | 0.17 | 28 | |
| BO-12 | 1270 | 0.03 | 28 | |
| BO-13 | 2619 | 0.15 | 28 | |
| BO-14 | REMOVED | 0.00 | 28 | |
| BO-15 | 4358 | 0.10 | 33 | |
| BO-16 | 5992 | 0.14 | 4 | |
| SUBTOTAL | 49128 | 0.99 | 4 | |
| LARGE STOCK REFORESTATION | | | | |
| LG-1 | 3752 | 0.03 | 3 | |
| LG-2 | 13622 | 0.03 | 15 | |
| LG-3 | 1638 | 0.04 | 14 | |
| LG-4 | 4138 | 0.09 | 18 | |
| LG-5 | REMOVED | 0.00 | 18 | |
| LG-6 | REMOVED | 0.00 | 29 | |
| SUBTOTAL | 17078 | 0.25 | | |
| TOTAL | 370737 | 8.76 | | |
| LANDSCAPE STOCK REFORESTATION | | | | |
| LAT | 7105.96 | 0.16313 | | 26 |
| SUBTOTAL | 7105.96 | 0.16313 | | |
| TOTAL | 7105.96 | 0.16313 | | |



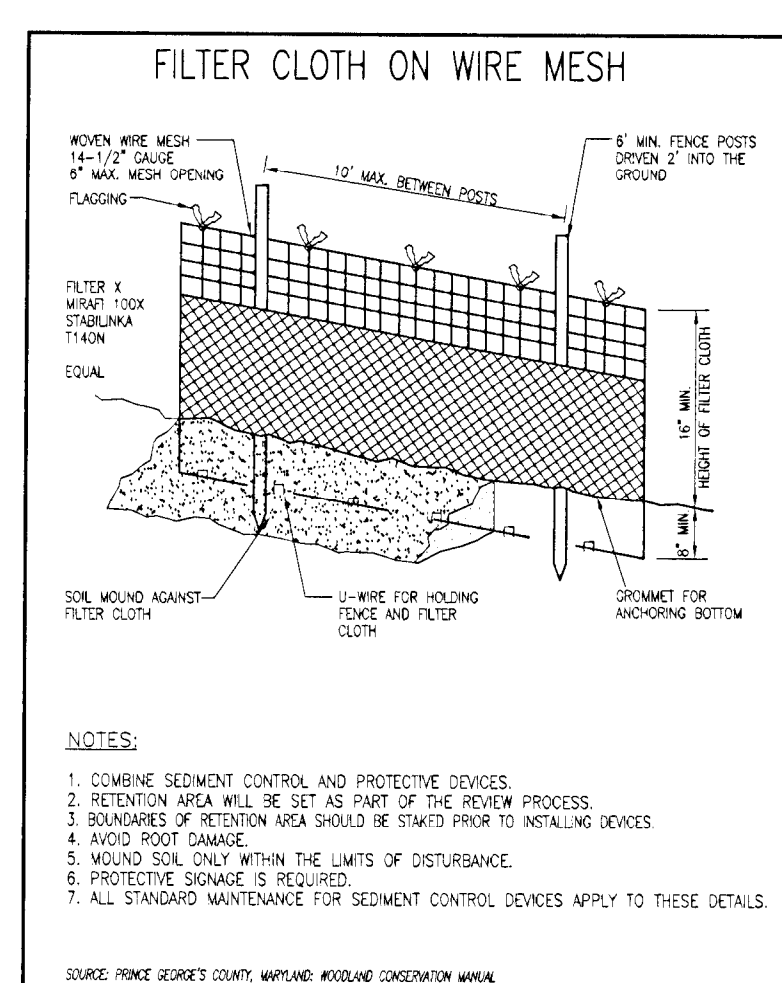
| | |
|---------------------|--|
| Concept: | Aggregate drift or Sweep. A cluster type grouping which tapers out features out along the edges. |
| Example: | Aggregate massing or drifts are one of the most common vegetation distribution patterns occurring in nature. Principle seed bearers as well as the several species of shrubs and trees seed dispersal outside, along the window with densities thinning out along the fingers or extremities. Groupings bend through and into other groupings. Imagine the foliage of windbreak mixedwood stands. They often appear as aggregate drifts elongated and deep or drop in shade. |
| Application: | This does not mean that plants must be in a grid pattern, that drifts of shrubs cannot blend into groupings of trees or that groupings of same species cannot occur together. It simply means that the installation should meet the stormwater runoff containment and criteria at the same time replicating nature's aggregate drift patterns (see local). |
| | When using this theory to lay out a planting plan the size of the drifts will depend on the quantity of plants allocated, the scale of the site, and the careful consideration of the installer. |



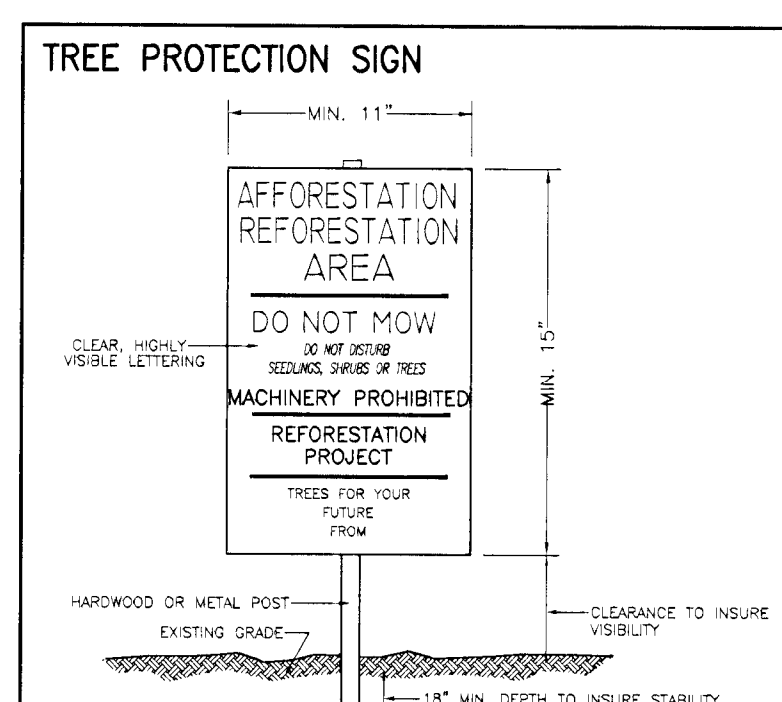
3. Slice sides of the root ball if not bound, and place onto the bottom of the hole. Hole should be the same depth as the root ball. Do not butterfly root ball, as this method causes air pockets. Backfill with the existing native soil. A polymer gel soil moisture enhancer mixed into backfill soil is optional depending on site conditions.



6. Mulch with 3" of shredded hardwood mulch, shredded pinebark mulch or composted woodchips.

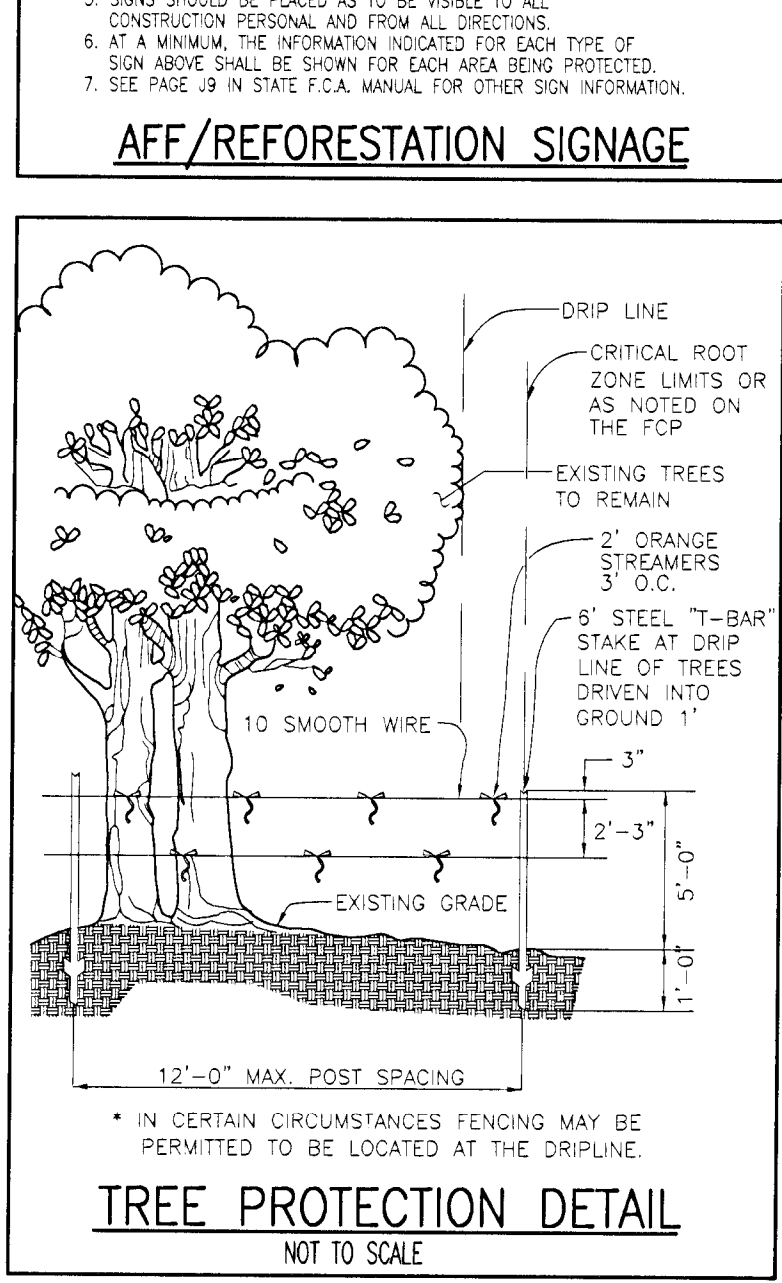


TREE PROTECTION AND SEDIMENT CONTROL



NOTES:

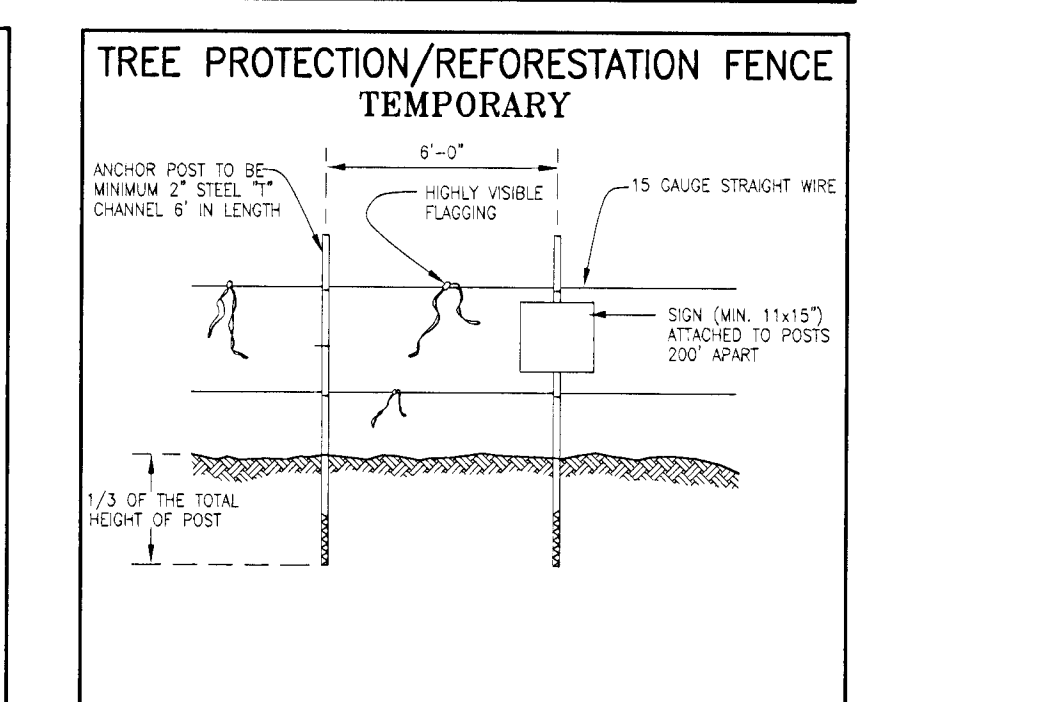
1. ATTACHMENT OF SIGN TO TREES PROHIBITED.
2. SIGNS SHOULD BE PROPERLY MAINTAINED.
3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
4. SIGNS SHOULD BE PLACED AT OR NEAR APPROXIMATE EDGE OF CRITICAL ROOT ZONE WHEN EVER POSSIBLE, AT OR NEAR TREE PROTECTION FENCE.
5. TREE SIGN SHOULD BE AS NEAR VERBIE TO ALL



The diagrams show cross-sections of a tree being planted in different soil conditions. Each diagram includes labels for the root ball, soil layers, and dimensions.

- UNDISTURBED SOIL:** Shows a tree with a root ball of 12" x 12" x 18" being planted in undisturbed soil. The root ball is surrounded by a 6" x 6" x 6" hole. The soil is labeled "SOIL WITH 50% HUMUS" and "6" x 6" x 6" HOLE". The root ball is labeled "12" x 12" x 18" ROOT BALL". The hole is labeled "6" x 6" x 6" HOLE". The soil is labeled "SOIL WITH 50% HUMUS".
- DISTURBED SOIL:** Shows a tree with a root ball of 12" x 12" x 18" being planted in disturbed soil. The root ball is surrounded by a 6" x 6" x 6" hole. The soil is labeled "SOIL WITH 50% HUMUS" and "6" x 6" x 6" HOLE". The root ball is labeled "12" x 12" x 18" ROOT BALL". The hole is labeled "6" x 6" x 6" HOLE". The soil is labeled "SOIL WITH 50% HUMUS".
- PLANTING ON SLOPE:** Shows a tree with a root ball of 12" x 12" x 18" being planted on a slope. The root ball is surrounded by a 6" x 6" x 6" hole. The soil is labeled "SOIL WITH 50% HUMUS" and "6" x 6" x 6" HOLE". The root ball is labeled "12" x 12" x 18" ROOT BALL". The hole is labeled "6" x 6" x 6" HOLE". The soil is labeled "SOIL WITH 50% HUMUS".

NOTE:
TREE NOT TO BE FIVE TIMES THE ROOTBALL IS PREFERRED, PARTICULARLY IN POOR SOIL.



NOTES:

1. TREE PROTECTION DEVICE ONLY.
2. RETENTION/REFORESTATION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
5. WIRE SHOULD BE SECURELY ATTACHED TO POSTS.
6. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION.
7. PROTECTIVE SIGNAGE IS ALSO RECOMMENDED.

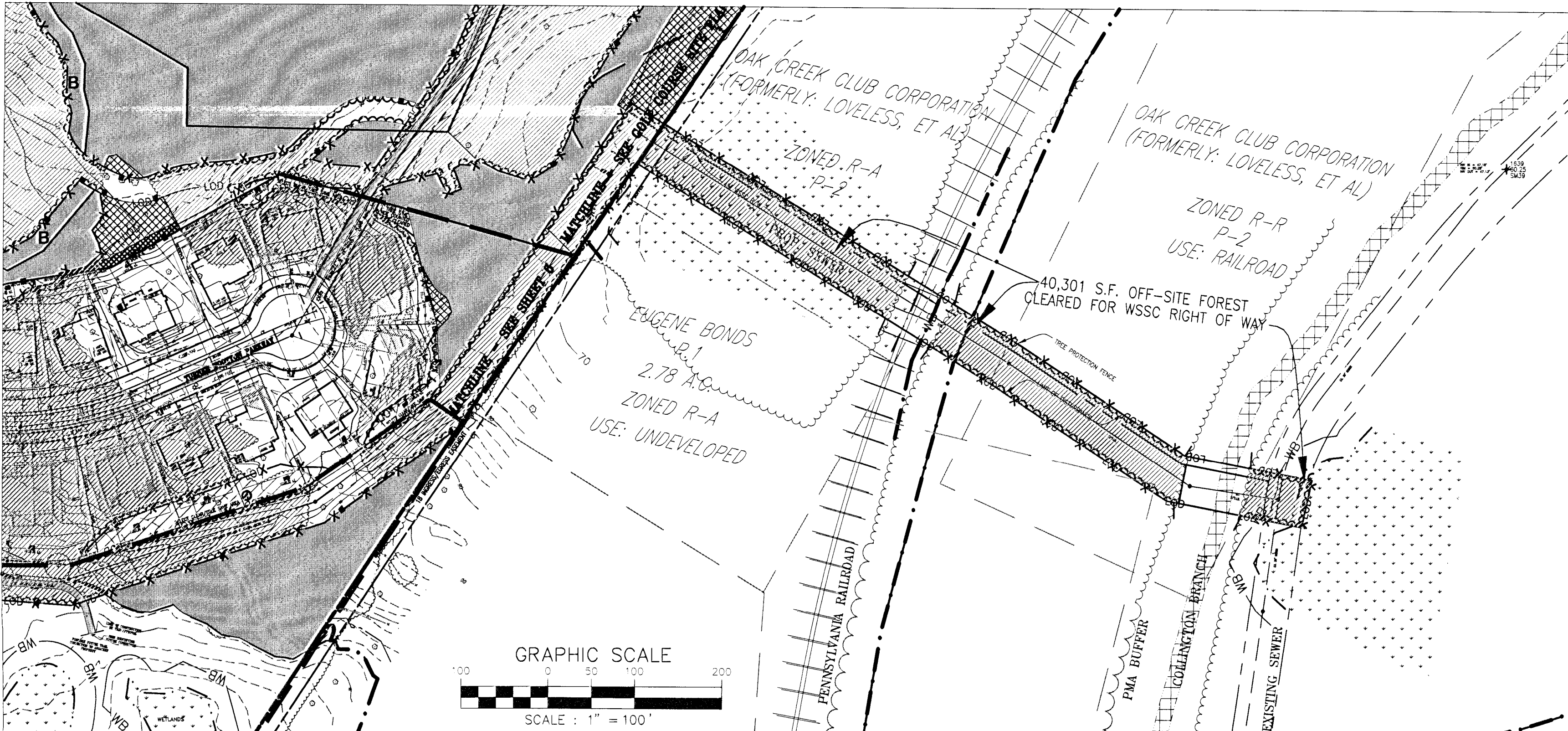
| M.N.C.P.P.C. APPROVALS | | | |
|---|------------------|----------------------|-----------------------|
| PROJECT NAME: | | OAK CREEK CLUB | |
| PROJECT NUMBER: | | SDP--0308 | |
| <i>For Conditions of Approval use Site Plan Cover Sheet or Approval Sheet The Revision Label Below Apply to this Sheet</i> | | | |
| Approval or Revision # | Approval Date | Reviewer's Signature | Certification Date |
| 11-10-03 | | RUTH GROVER | 05-03-04 |
| 02 | 10-10-06 | RUTH GROVER | 10-11-06 |
| 06 | 06-26-13 | EPS | 07-12-13 |
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| FOR CONDITIONS OF APPROVAL USE THIS FROM OVER SHEET OR APPROVAL SHEET THE RATION LINKED BELOW APPLY TO THIS SHEET | | | |
|--|---------------|----------------------|--------------------|
| Approval or Revision # | Approved Date | Reviewer's Signature | Certification Date |
| 01 | 11-01-07 | RUTH GROVER | 10-13-10 |
| | 01-08-15 | | |

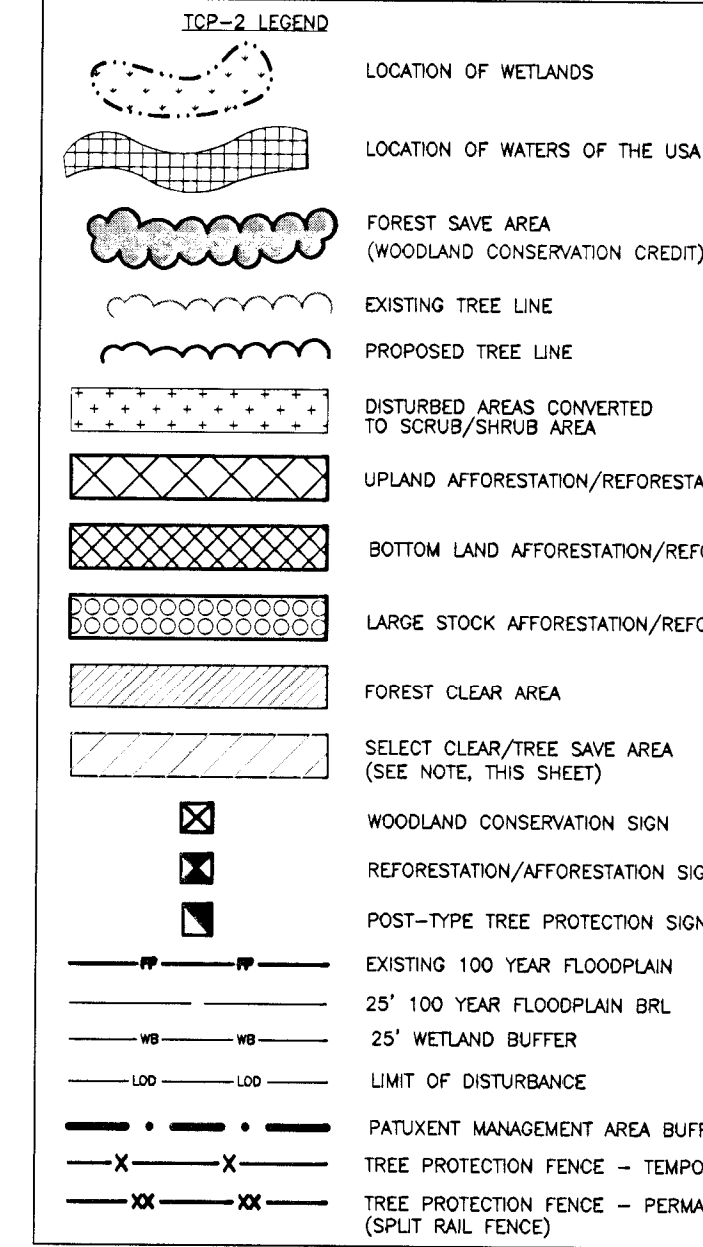
If this Approvals Block has been duplicated or modified in any way by digital or other methods of reproduction, the signature of a licensed engineer, architect or landscape architect below guarantees the plans are the approved certified plans.

Signature: _____

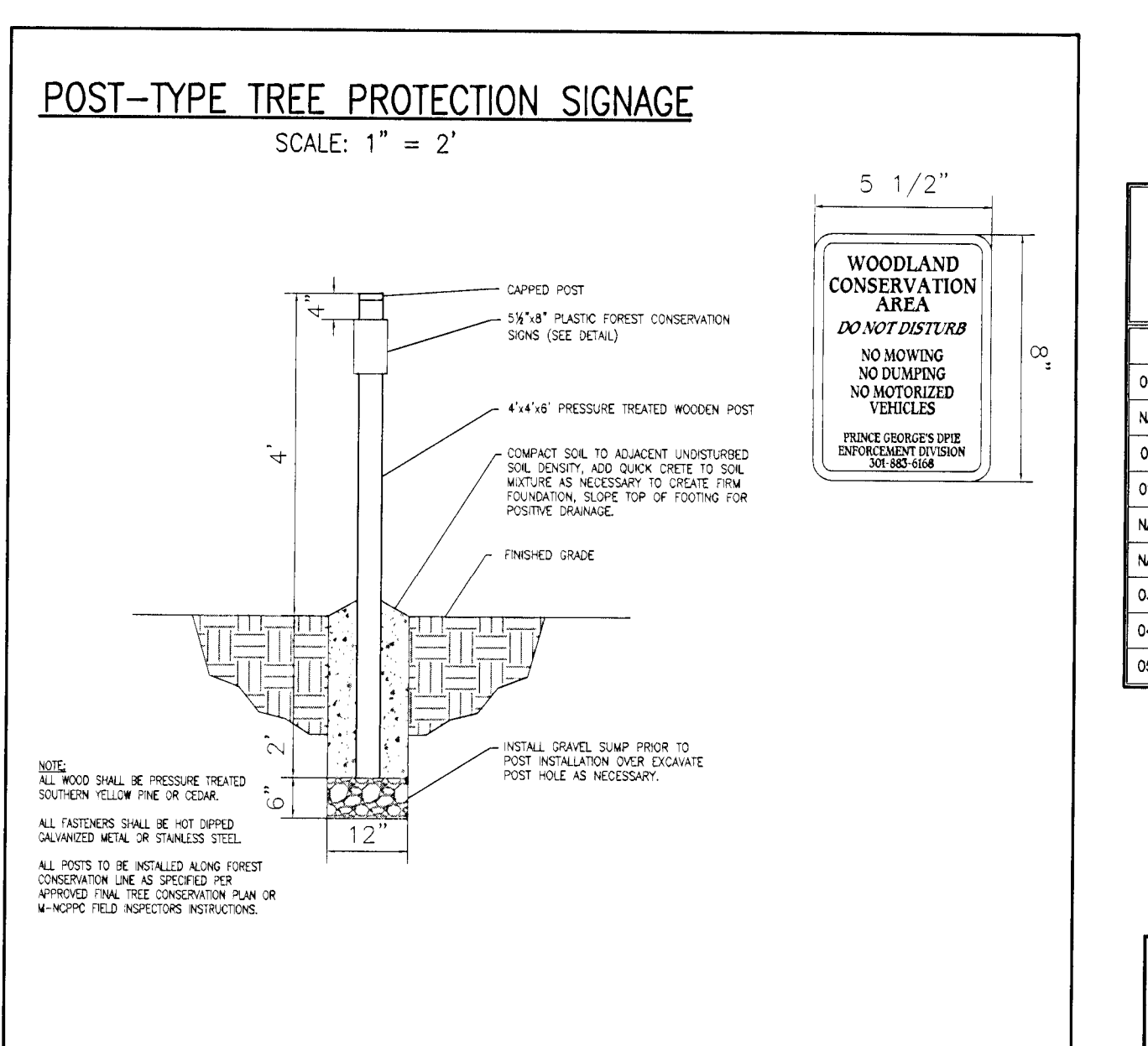
Title: _____



OFFSITE SEWER OUTFALL LOCATION - SOUTH(@ LANDBAY C)



NOTE: PRIOR TO CONSTRUCTION OF ANY TRAIL DEDICATED TO MNCPPC, THE PROPOSED LOCAL FIELD LOCATED AND APPROVED BY MNCPPC FOR ALL OTHER TRAILS THE PROPOSED LOCAL FIELD LOCATED AND APPROVED BY ENVIRONMENTAL SECTION AND THE DER INSPECTOR.



TO BE
BE
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BE
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LABELS FOR TREE SAVE AREAS OUTSIDE WOODLAND CONSERVATION AREAS:

| | |
|--|--|
| TREE SAVE AREA, NOT CLEARED, NOT COUNTED | -EXISTING FOREST NOT TO BE CLEARED BUT NOT COUNTED AS WOA |
| TREE SAVE, NOT FOREST, NOT CLEARED | -EXISTING TREES THAT DO NOT MEET FOREST CRITERIA TO BE SAVED |

| Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP# = 109-03 | | | | |
|---|----------------|-------------|---|--|
| Approved by | Date | DRD # | Reason for Revision | |
| JOHN MARKOVICH | 04/15/04 | SDP-0308 | Approval of Landscays A, B, C, I & J | |
| | 03/18/15 | SDP-0308-01 | Fencing, total lots; staff level approval | |
| K. FINCH | 10/10/06 | SDP-0308-02 | Remove A-44 R/W, Malboro clay | |
| K. FINCH | 07/10/07 | SDP-0308-03 | Revise PMA in Landscay "J" | |
| | 04/17/08 | SDP-0308-04 | Architectural revision; staff level | |
| | 02/04/09 | SDP-0308-05 | Urban Design revisions; staff level | |
| K. FINCH | 10/07/10 | SDP-0610 | Add Landscays D and E | |
| K. FINCH | 07/11/13 | SDP-0308-06 | Slip lane to GC, Sewer outfall in D & E | |
| <i>K. Finch</i> | <i>7/28/18</i> | SDP-0308-07 | Revisions to LOD for Trail & bridge | |

TCP II -
O.A.
QUEEN AN

UPDATES/REVISIONS :
08/20/03 ADDRESSED PAP COMMENTS MLB
08/24/03 ADDRESSED REFERRAL COMMENTS SPS
11/20/03 ADDRESSED SFP APPROVAL COMMENTS MLB
02/09/04 SUBMIT DRAFT SIGNATURE SET MLB
3/8/04 ADDRESSED MCMPC COMMENTS MLB
3/24/04 UPDATED TO REFLECT REVISIONS TO SFP SPS


UPDATES/REVISIONS :
12/24/08 UPDATE WOODLAND CONSTRUCTION WORKSHEET SPS
10/15/07 ADD LANDLORD D & E TO TCP 109/03 RPS
10/30/08 ADJUST FOR FIELD LEAD TIME ADD SFP 201, REMOVE B-10 SPS
01/15/07 UPDATE ALL CHANGES FOR SFP APPROVAL SPS
01/15/07 SUBMIT FOR FINAL REVIEW OF TCP/109/03 MCMPC SPS
09/21/10 SUBMIT FOR CERTIFICATION OF TCP/109/03 SPS SPS

UPDATES/REVISIONS :
05/07/13 UPDATE ALL CALCULATIONS TO REFLECT FIELD CONDITIONS AT NEW SUBROUSE AND SUB-LEASE SPS
07/13 SUBMIT FOR CERTIFICATION OF SFP-00078, APPROVAL OF THE S-P-LANE SPS
02/23/13 REMOVE PERM CONDITIONS OF SFP-0610/01 APPROVAL SPS
01/03/13 ADD HIGH PRESSURE WATER WASHING DESIGN SPS
01/03/13 REVISE PARCEL PARCELS 1 SPS

CP Associates

CLIENT: NVR AS CHALLENGER OAK CREEK
17001 PLAZA AMERICA DR.
SUITE 300
RUSTON, VA 24090

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| | |
|---|---|
| <p>THIS BLOCK IS FOR OFFICIAL USE ONLY</p> <p>OR LABEL CERTIFIES THAT THIS PLAN MEETS CONDITIONS OF FINAL APPROVAL BY THE PLANNING BOARD, ITS DESIGNEE OR THE DISTRICT COUNCIL.</p> <p>M-NCPPC APPROVAL</p> |  |
| <p>PROJECT NAME: OAK CREEK CLUB-PH 1</p> <p>PROJECT NUMBER: SDP-0308-07</p> <p><small>FOR CONDITIONS OF APPROVAL, SEE SITE PLAN COVER SHEET OR APPROVAL SHEET. DESIGN NUMBERS MUST BE INCLUDED IN THE PROJECT NUMBER.</small></p> | |

109-03 - DETAILS SHEET
K CREEK CLUB
NE (7TH) ELECTION DISTRICT

(NW 1/4) ELECTION DISTRICT
 GEORGE'S COUNTY, MARYLAND

Charles P. Johnson & Associates, Inc.
 ENGINEERS - PLANNERS - LANDSCAPE ARCHITECTS - SURVEYORS
 1751 ELTON LANE SUITE 300 SILVER SPRING, MARYLAND 20905
 Phone (301)434-7000 E-mail cjohnson@cpj.com Fax (301)434-9594
 FREDERICK, MD FAIRFAX, VA

| | | |
|---|--------------------------------|---------------------------------|
| HERRON PARTNERS, INC. ATTORNEYS AT LAW BY J.E.D. | PRELIMINARY PLAN NO. 4-7032 | SITE PLAN NO. SEP 2008 & 010 |
| | DESIGN M.L.B. | SHEET |
| | DRAFT M.L.B. | 2 3 |
| | DATE MAY 2003 | OF |
| | SCALE AS SHOWN | FILE NO.: 31-0028 & 5 D. |

PLANTING PROCEDURES FOR REFORESTATION AREAS (LANDSCAPE AND SEEDLING STOCK)

All tree planting for woodland replacement, reforestation will be completed within 6 months of the completion of final grading, provided that it can be done during the specified planting window. An additional 6 months may be necessary in order to plant during the planting window. Failure to establish the woodland replacement, reforestation or afforestation for the golf course within the described time frame will result in a failure to receive a Use Permit for the golf course and/or a violation of the Plan including the associated \$150 per square foot penalty unless a written extension is approved by the DER.

DER shall be notified prior to soil preparation or initiation of any tree planting on this site.

Results of survival checks for all tree plantings shall be reported to DER.

Prior to the issuance of any permits, the contractor responsible for soil preparation, site preparation, tree planting and tree maintenance must be identified.

Name _____

Business Name _____

Address _____

Phone Number _____

- Planting Window for bare root seedlings – December 1st – April 30th. Planting window for landscape stock – March 1st – December 30th. No planting will occur when the ground is frozen.
- Species List – Based on the native forest composition of the area in which Oak Creek Club Community is located (see "Reforestation Plant List").
- Seeding rate to be 1/4" to 1/2" colter with roots not less than 8" long. Landscape stock to range from 1" – 2 1/2" caliper.
- Spacing and Quantity – See "Reforestation Plant List".
- Layout – For seedlings see "Planting Layout" detail. For landscape stock – see TCP-III planting plan.
- The designated regulatory agency shall inspect site.
- No tree shelters are to be used for seedlings unless excessive deer browse is evident or adjacent infestations of invasive species are present. Tree shelters increase native cavity nesting bird mortality and inhibit plants' ability to establish root systems.
- Each individual seedling is to be flagged with fluorescent flagging tape and mulched with 2" of composted wood chips or shredded hardwood mulch for maintenance and monitoring purposes.
- Each landscape tree should be mulched with 2-3" of composted shredded hardwood mulch unless they are in a planting bed where mulch will be spread throughout.

SITE PREPARATION (EXPPOSED AND NEWLY GRADED SOILS)

- Contractor is to perform soil tests in proposed planting areas prior to site preparation, to identify potential nutrient and pH deficiencies.
- Soils shall be free of contaminants (oil products, concentrated soluble salts, ferrous iron, soluble aluminum and soluble manganese).
- Apply soil amendments, if specified, prior to tilling, disking, raking, final grading, etc. Soil amendments are to be determined by the University of Maryland Cooperative Extension Service or a qualified Ecologist based on soil test results.
- Flat areas and slopes up to 3:1 shall be loose and friable to a depth of at least 6 inches. The top layer of soil shall be loosened by turning, disking or other acceptable means before seeding.
- Slopes steeper than 3:1 grade shall have the top 1-3 inches of soil loose and friable before seeding.
- Seed and fertilizer – Seed with a hydroseeder for sites larger than one half acre. Dry seed with a manual centrifugal spreader for sites less than one half acre and not accessible to hydroseeding equipment (see seeding specifications to follow for other method used). Fertilizer is to be incorporated into the hydroseed mix if hydroseeding is performed, or it is to be applied with a manual centrifugal spreader if dry seeding is the method used. Fertilizer type, analysis, and application rate to be determined by University of Maryland Cooperative Extension Service or a qualified Ecologist based on soil test results.
- Herbicide applications for the control of invasive species after planting will be done as part of the maintenance agreement, any with written permission from Environmental Planning. There will be no use of herbicides within the PMA.

PLANT INSTALLATION METHODS

- Auger planting method is preferred for level areas, as it creates better soil porosity by drilling a hole much larger than the root system and packing till soil, see "Method for Auger Tree Planting" detail.
- Hand digging is acceptable in situations where the auger cannot be applied (slopes, wet areas, confined spaces, etc.) See "Planting Methods" detail.

PLANT CRITERIA FOR REFORESTATION AREAS (LANDSCAPE AND SEEDLING STOCK)

- Plants supplied shall conform in all respects to the current edition of the American Standard for Nursery stock (ANSI Z60.1). They shall be nursery grown in accordance with good horticultural practices and grown under climatic conditions similar to those in the locality of the project. Plant names shall be those given in the edition of Standard Plant Names, American Joint committee on Horticultural Nomenclature.
- Prior to planting, protect plants of all sizes from sun and drying winds. Plants that cannot be planted immediately shall be kept in the shade, and kept well watered. Plants shall not remain unplanted for more than three (3) calendar days unless adequate irrigation and protection from the elements is provided on site.
- Plants shall not be bound with wire or rope at any time so as to damage the bark or break branches or twigs.
- Plants shall be sound, vigorous and healthy. They shall be free of disease and insect pests and shall have healthy, well developed root systems. Trunks and branches shall be free of cuts and abrasions over one inch (1") in any dimension.
- Container-grown plants shall not have roots that enclose the rootball.
- All plants shall be certified pest-free by the Department of Agriculture of the state of origin.

SPECIFICATIONS FOR HYDROSEEDING ALL REFORESTATION AREAS WITH A STABILIZATION SEED MIX (SWM POND AREA EXCLUDED)

- Timing
- Apply seed upon the completion of site preparation (herbicide application, topical or incorporated soil amendment applications, grading, etc.)
- Stabilization seed mix to consist of a non-fertil building ground cover.
- State certified weed free seed (labeled) graded.
- Rate – 50 lbs/acre (for disturbed, eroded or newly graded soils and overseeding existing vegetation with less than 60% cover).
- Note: For best success rates under drought conditions (i.e., unusually dry seasons, S/W facing slopes, sandy soils etc.), the application rate should be reduced to 25-30 lbs/acre.
- Apply seed uniformly with a hydroseeder. The slurry includes seed, fertilizer, mulch binder (where applicable) on a firm, moist seedbed. Note: The seed and fertilizer will be mixed on site and the seeding shall be immediate without interruption.

WOODLAND CONSERVATION AREA MANAGEMENT NOTES

Removal of Hazardous Trees or Hazardous Limbs By Developers or Builders

The developer and/or builder is responsible for the complete preservation of all forested areas shown on the approved plan to remain undisturbed. Only trees or parts thereof designated by the Department of Environmental Resources as dead, or hazardous may be removed.

- A tree is considered hazardous if a condition is present which leads a Licensed Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the ANSI A-300 Pruning Standards ("Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices").
- If a hazardous condition may be alleviated by corrective pruning, the Licensed Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the ANSI A-300 Pruning Standards ("Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices").
- Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the building or grading inspector if there is a valid grading or building permit for the subject lot or parcels which the trees are located. Only after approval of the appropriate inspector may the tree be cut by chainsaw to near the existing ground level. The stump may not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
- Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contact with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat.

Removal of Hazardous Trees, Hazardous Limbs, Noxious Plants, Invasive Plants or Non-Native Plants in Woodland Conservation Areas Owned by Individual Homeowners

- If the developer or builder no longer has an interest in the property the homeowner shall obtain a written statement from the Licensed Arborist or Licensed Tree Expert identifying the hazardous condition and the proposed corrective measures prior to having the tree conducted. The tree may then be removed by the arborist or tree expert. The stump shall be cut as close to the ground as possible and left in place. The removal or grinding of the stumps in the woodland conservation areas is not permitted.
- The removal of noxious, invasive, and noxious plant species from the woodland conservation areas may be done with the use of hand-held equipment only such as pruners or a chain saw. These plants may be cut near the ground and the material less than two inches diameter may be removed from the area and disposed of appropriately. All material from these noxious, invasive, and noxious plants greater than two (2) inches diameter shall be cut to allow contact with the ground, thus encouraging decomposition.

Protection of Reforestation and Afforestation Areas by Developers or Builders

- Reforestation and afforestation areas shall be planted prior to the occupancy of the nearest building or residence. If planting cannot occur due to planting conditions, the developer or property owner shall install the flagging and signage in accordance with the approved Type II Tree Conservation Plan. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of the property title, the homeowner, the developer shall obtain a signed statement from the purchaser indicating that they understand that the reforestation area is located on their property and that reforestation will occur during the next planting season. A copy of that document shall be presented to the Grading Inspector and the Environmental Planning Section.
- Reforestation areas shall not be moved, however, the management of competing vegetation around individual trees is acceptable.

Protection of Reforestation and Afforestation Areas by Individual Homeowners

- Reforestation flagging and signage shall remain in place in accordance with the approved Type II Tree II Tree Conservation Plan until the trees have grown sufficiently to have crown closure.
- Reforestation areas shall not be moved, however, the management of competing vegetation around individual trees is acceptable.

Woodland Areas NOT Counted as Part of the Woodland Conservation Requirements

- A revised Tree Conservation Plan is required prior to clearing any woodland area which is not specifically identified to be cleared on the most recently approved Type II Tree Conservation (TCP) on file in the office of the M-NCPPC Environmental Planning Section located on the 1st floor of the County Administration Building at 14741 Governor Owen Bowie Drive, Upper Marlboro, Maryland 20772, phone 301-943-3450. Additional mitigation will be required for the clearing of all woodlands beyond that reflected on the approved plans. Although clearing may be allowed, it may be subject to additional regulatory requirements, mitigation, and fees which must be reflected on TCP revisions approved by the M-NCPPC Environmental Planning Section.
- Homeowners or property owners may remove trees less than two (2) inches diameter, shrubs, and vines in woodland areas which are owned but not part of the Woodland Conservation Requirements after all permits have been released for the subject property. This area may not be sited or have other ground disturbances which would result in damage to the tree roots. Raking the leaves and over-seeding with native grasses, annual flowers or native groundcover is acceptable. Seeding with invasive grasses including any variety of Kentucky 31 fescue is not acceptable.

REFORESTATION INSPECTION AND PLANTING NARRATIVE

1. REFORESTATION INSPECTION SCHEDULE: There shall be five inspections for forest conservation.

A. The first inspection shall occur after flagging/staking of the L.O.D. and/or stream buffers and prior to any clearing, grading, or sediment control measures.

B. The second inspection shall occur after placement of sediment control devices and tree protection devices and prior to clearing and grading.

C. The third inspection shall occur prior to planting in reforestation areas. The pre-planting inspection is to make final decisions regarding the best implementation of the Planting Plan, including, but not limited to the final placement and selection of plant species, determination of the regeneration potential of existing plants to remain, and a determination of the best edge planting treatment. The purchase and delivery of plant materials should not be made until after this inspection, since a determination may be made in the field to alter the choice of plant material.

D. The fourth inspection shall occur immediately following the completion of the reforestation planting. This inspection is to determine the completion and adequacy of the planting.

E. The fifth and final inspection shall occur at the completion of the two-year maintenance program. The purpose of this inspection is to determine the success and adequacy of the maintenance program (and deer management program). Final determination will be made at this time as to whether additional plantings and a further maintenance program are necessary.

2. PRE-PLANTING CONSIDERATIONS

A. In areas with substantial grading of invasive groundcover species, measures shall be taken to remove and control invasives. The infested area should be mowed prior to commencement of planting. Necessary weed control measure should be determined during the pre-planting inspection, including, but not limited to mowing, periodic mowing around the reforestation plantings, and fabric coverings. The use of chemical weed controls will be limited to extreme cases, and only with prior written approval by M-NCPPC staff. Where periodic mowing will occur as a weed control measure, the typical tree planting distribution pattern should be modified so as to allow access by mowing equipment without damage to plantings.

B. A soil analysis will be conducted prior to commencement of reforestation on land where extensive agricultural use has occurred in the past. Test pits will be dug in areas of undisturbed soil to determine if a grappion layer is present. If grappion is present, it should be perched by tilling and planting. Tests should be dug to twice the normal diameter for the normal planting for the material planted.

C. Soils should be treated by incorporating natural mulch within the top 12 inches or mulch or leaf mold compost are preferred.

D. If fill material is used at the planting site, it should be clean fill with 12 inches of native soil. Stockpiling of native top soils must be done in such a way that the height of the pile does not damage the seed bed.

ADDITIONAL NOTES (FOR ALL SHEETS IN THIS SET):

- Cutting or clearing of woodland not in conformance with this Plan without the expressed written consent of the Planning Director or designee shall be subject to a \$150 per square foot mitigation fee.
- The Site Development Inspector must be contacted at (301) 731-8750 prior to the start of any work on the site to address implementation of Tree Conservation measures shown on this Plan.
- Property owners shall be notified by the Developer or Contractor of any Forest Conservation Areas (Forest Save Areas, Reforestation Areas, Afforestation Areas, or Selective Clearing Areas) located on their lot or parcel of land and the associated fines for unauthorized disturbances to these areas. Upon the sale of the property, the owner/developer or owner representative shall notify the purchaser of the property of any Forest Conservation Areas.
- All appropriate bonds will be posted with M-NCPPC prior to the issuance of any permits. These bonds will be retained as surety by M-NCPPC until all required activities have been satisfied.
- All existing trash and impervious areas shown on the plan to be removed must be removed and any disturbed soil must be stabilized and seeded. It may be necessary to scarify and/or aerate the soil. Four inches of topsoil will be added if these areas after the impervious area is removed.
- All plant installation shall follow the latest edition of the M-NCPPC publication "A Technical Manual for Woodland Conservation Development in Prince George's County".
- Plants shall be inspected by the contractor, and any material that is either damaged or which has root ball compaction, pruned or knotted root systems will be replaced. No plants will be stored on site. Plants will be planted immediately after receipt from the nursery.
- Planting hole should be limited to 2.4 X root ball diameter. Native soil material will be used to backfill planting site and area will be packed to remove air pocket. Rake soil evenly over the planting field and cover hole with three inches of mulch. Where to write soil and provide the area as needed.
- The need for deer protection and specific measures necessary to be determined as part of the pre-construction meeting.
- The services of Licensed Arborist shall be retained to evaluate the appropriate measures necessary to ensure the survival of the large and specimen trees proposed to be preserved whose critical root zone will be impacted by construction.
- The number of trees planted may be adjusted, depending on the size of stock used, during later stages of the TCP approval process.

M.N.C.P.P.C. APPROVALS

PROJECT NAME: OAK CREEK CLUB

PROJECT NUMBER: SDP-0308

Approval or Revision #

Approved Date

Reviewer's Signature

Certification Date

11-10-03

03-03-04

RUTH GROVER

05-03-04

02

10-10-06

RUTH GROVER

10-11-06

03

07-11-07

RUTH GROVER

07-11-07

06

06-26-13

EPS

07-12-13

Signature: _____

Title: _____

M.N.C.P.P.C. APPROVALS

PROJECT NAME: OAK CREEK CLUB

PROJECT NUMBER: SDP-0610

Approval or Revision #

Approved Date

Reviewer's Signature

Certification Date

11-01-07

11-01-07

RUTH GROVER

10-13-10

01

01-08-15

Signature: _____

Title: _____

8' HIKER/BIKER TRAIL BRIDGE AND BOARDWALK DETAILS TO BE USED TO ASSURE DRY PASSAGE ON TRAILS

- PEDESTRIAN BRIDGES WILL HAVE 54" RAILINGS
- GOLF CART BRIDGES WILL HAVE 410" CURBS

BRIDGE ABUTMENT – CART & PEDESTRIAN BRIDGES

Decking – All Bridges & Boardwalks

Decking – All Bridges & Boardwalks

PEDESTRIAN BRIDGE RAILING

Boardwalk/Golf Cart Bridge Section

Boardwalk/Golf Cart Bridge Section

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8' HIKER/BIKER TRAIL

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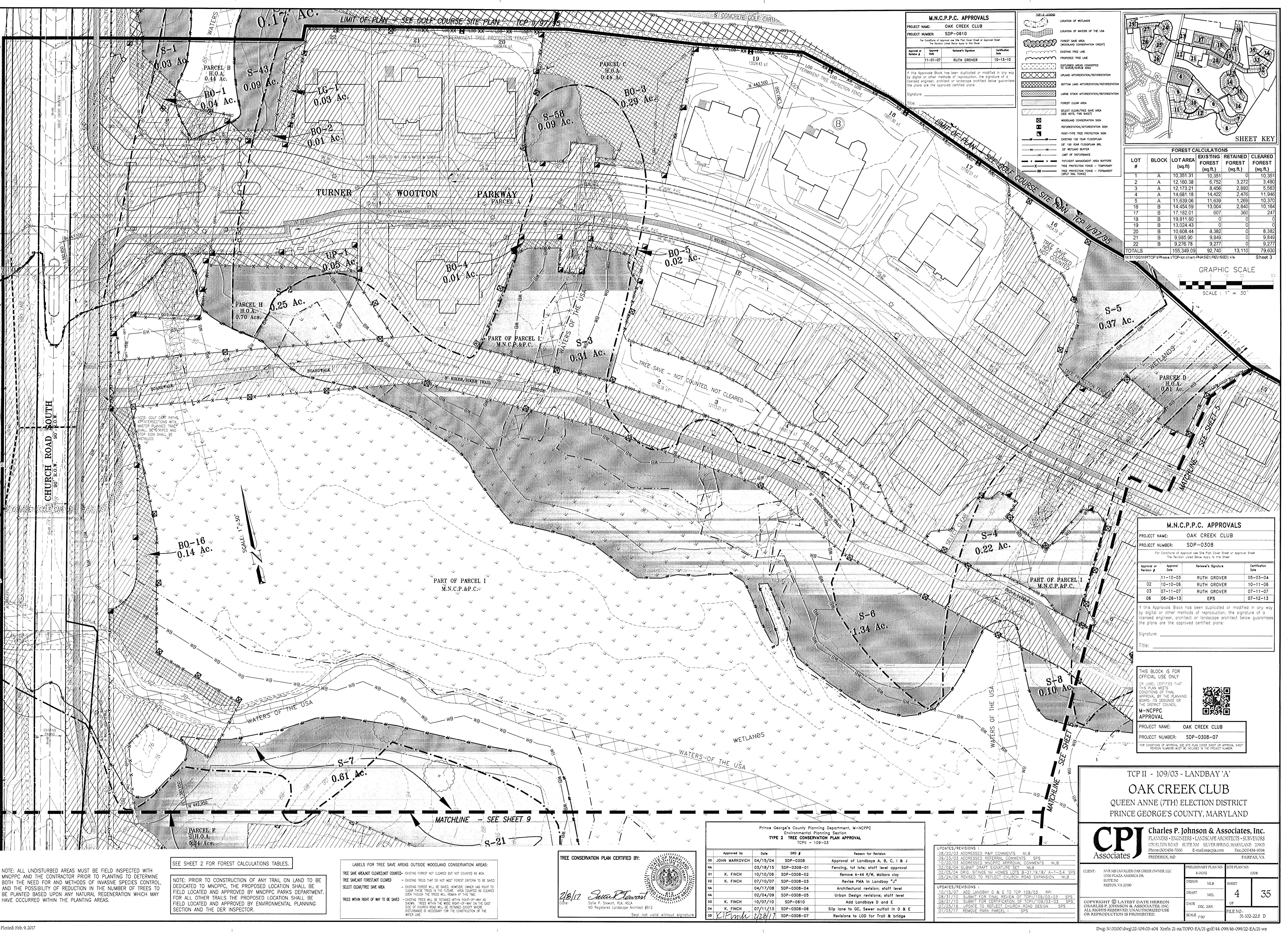
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NOTE: ALL UNDISTURBED AREAS MUST BE FIELD INSPECTED WITH MNCPPC AND THE CONTRACTOR PRIOR TO PLANTING TO DETERMINE BOTH THE NEED FOR AND METHODS OF INVASIVE SPECIES CONTROL, AND THE POSSIBILITY OF REDUCTION IN THE NUMBER OF TREES TO BE PLANTED BASED UPON ANY NATURAL REGENERATION WHICH MAY HAVE OCCURRED WITHIN THE PLANTING AREAS.

SEE SHEET 2 FOR FOREST CALCULATIONS TABLES.

NOTE: PRIOR TO CONSTRUCTION OF ANY TRAIL ON LAND TO BE DEDICATED TO MNCPPC, THE PROPOSED LOCATION SHALL BE FIELD LOCATED AND APPROVED BY MNCPPC PARKS DEPARTMENT. FOR ALL OTHER TRAILS THE PROPOSED LOCATION SHALL BE FIELD LOCATED AND APPROVED BY ENVIRONMENTAL PLANNING SECTION AND THE DER INSPECTOR.

LABELS FOR TREE SAVE AREAS OUTSIDE WOOLAND CONSERVATION AREAS:
TREE SAVE AREAS NOT CLEARED/COUNTED - EXISTING TREES THAT DO NOT MEET FOREST CRITERIA TO BE SAVED.
TREE SAVE/NOT CLEARED - EXISTING TREES THAT DO NOT MEET FOREST CRITERIA TO BE SAVED.
SELECT CLEAR/TREE SAVE AREA - EXISTING TREES THAT DO NOT MEET FOREST CRITERIA TO BE SAVED.
TREES WITHIN RIGHT OF WAY TO BE SAVED - EXISTING TREES THAT DO NOT MEET FOREST CRITERIA TO BE SAVED.

TREE CONSERVATION PLAN CERTIFIED BY:

2/8/12 *Julia Stewart*

Sally P. Stewart, PLA, ASLA
MD Registered Landscape Architect #612
Date: 2/8/12
Seal valid without signature

| Approved by | Date | DRG # | Reason for Revision |
|----------------|----------|-------------|---|
| JOHN MARKOVICH | 04/15/04 | SDP-0308 | Approval of Landbays A, B, C, I & J |
| NA | 03/18/15 | SDP-0308-01 | Fencing, lot lots; staff level approval |
| K. FINCH | 10/10/08 | SDP-0308-02 | Remove A-44 R/W, Malboro clay |
| K. FINCH | 07/10/07 | SDP-0308-03 | Revise PMA in Landbay "J" |
| NA | 04/17/08 | SDP-0308-04 | Architectural revision; staff level |
| NA | 02/04/09 | SDP-0308-05 | Urban Design revision; staff level |
| K. FINCH | 10/07/10 | SDP-0610 | Add Landbays D and E |
| K. FINCH | 07/11/13 | SDP-0308-06 | Slip lane to GC, Sewer outfall in D & E |
| K. FINCH | 07/11/13 | SDP-0308-07 | Revisions to LOD for Trail & bridge |

| Updates/Revisions | DRG # | Comments |
|-------------------|---|----------|
| 08/20/03 | ADD LANDBAY D & E TO TOP 109/03 | RPI |
| 08/31/10 | SUBMIT FOR FINAL REVIEW OF TOP 109/03-03 | SPS |
| 09/21/10 | SUBMIT FOR CERTIFICATION OF TOP 109/03-03 | SPS |
| 07/23/16 | UPDATE TO PERFECT CHURCH ROAD DESIGN | SPS |
| 01/03/17 | REMOVE PARK PARCEL I | SPS |

TCPII - 109/03 - LANDBAY 'A'

OAK CREEK CLUB
QUEEN ANNE (7TH) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

CPI Associates
Charles P. Johnson & Associates, Inc.
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
1751 ELTON ROAD, SUITE 300 SILVER SPRING, MARYLAND 20903
Phone (301) 434-7000 E-mail: cpi@cpia.com Fax: (301) 434-9394
FREDERICK, MD FAIRFAX, VA

CLIENT: NVH AND CANALIER OAK CREEK OWNER, LLC
1700 PLAZA AMERICA DR.
SUITE 300
RESTON, VA 20190

PRELIMINARY PLAN NO: 0308
SHEET 4 OF 35
DATE: DEC 2001
SCALE: 1"=30'

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M.N.C.P.P.C. APPROVALS

| | | | |
|--|----------------------|-----------------------------|---------------------------|
| PROJECT NAME: OAK CREEK CLUB | | | |
| PROJECT NUMBER: SDP-0610 | | | |
| <small>For Conditions of Approval use the Plan Cover Sheet or Approval Sheet The Revision Listed Below Apply to this Sheet</small> | | | |
| Approval or Revision # | Approval Date | Reviewer's Signature | Certification Date |
| 11-01-07 | | RUTH GROVER | 10-13-10 |

If the Approval Block has been audited or modified in any way by digital or other methods of reproduction, the signature of a licensed engineer, architect or landscape architect below guarantees the plans are the approved certified plans:

Signature: _____

Title: _____

LEGEND

LOCATION OF WATERS OF THE USA

FOREST SAVE AREA (WOOLAND CONSERVATION CREDIT)

EXISTING TREE LINE

PROPOSED TREE LINE

OUTLINED AREAS CONVEYED TO MNCPPC FOR BAY AREA

UPLAND REFORESTATION/RESTORATION

BOTTOM LAND REFORESTATION/RESTORATION

LARGE STOCK REFORESTATION/RESTORATION

FOREST CLEAR AREA

SELECT CLEAR/TREE SAVE AREA

25' 100' YEAR FLOODPLAIN BRL

25' WETLAND BUFFER

LIMIT OF DISTURBANCE

POST-TYPE TREE PROTECTION SIGN

EXISTING 100' YEAR FLOODPLAIN

25' 100' YEAR FLOODPLAIN BRL

25' WETLAND BUFFER

LIMIT OF DISTURBANCE

TREE PROTECTION FENCE - TEMPORARY

TREE PROTECTION FENCE - PERMANENT (SPLIT RAIL FENCE)

SHEET KEY

| LOT # | BLOCK | LOT AREA (sq. ft.) | EXISTING FOREST (sq. ft.) | RETAINED FOREST (sq. ft.) | CLEARED FOREST (sq. ft.) |
|--------|-------|--------------------|---------------------------|---------------------------|--------------------------|
| 1 | A | 10,351.31 | 10,351 | 0 | 10,351 |
| 2 | A | 12,160.38 | 6,752 | 3,272 | 3,480 |
| 3 | A | 12,173.21 | 8,456 | 2,693 | 5,663 |
| 4 | A | 14,681.18 | 14,422 | 2,476 | 11,946 |
| 5 | A | 11,539.06 | 11,539 | 1,209 | 10,330 |
| 16 | B | 14,454.59 | 13,004 | 2,840 | 10,164 |
| 17 | B | 17,182.01 | 607 | 320 | 247 |
| 18 | B | 19,811.80 | 0 | 0 | 0 |
| 19 | B | 13,024.43 | 0 | 0 | 0 |
| 20 | B | 10,608.44 | 8,382 | 0 | 8,382 |
| 21 | B | 9,985.90 | 9,849 | 0 | 9,849 |
| 22 | B | 9,276.78 | 9,277 | 0 | 9,277 |
| TOTALS | | 155,349.09 | 92,740 | 13,110 | 79,630 |

M:\31100\W\TOP 109/03 Phase I\TOP 109/03-03 (REVISED).vnt

Sheet 3

FOREST CALCULATIONS

| LOT # | BLOCK | LOT AREA (sq. ft.) | EXISTING FOREST (sq. ft.) | RETAINED FOREST (sq. ft.) | CLEARED FOREST (sq. ft.) |
|--------|-------|--------------------|---------------------------|---------------------------|--------------------------|
| 1 | A | 10,351.31 | 10,351 | 0 | 10,351 |
| 2 | A | 12,160.38 | 6,752 | 3,272 | 3,480 |
| 3 | A | 12,173.21 | 8,456 | 2,693 | 5,663 |
| 4 | A | 14,681.18 | 14,422 | 2,476 | 11,946 |
| 5 | A | 11,539.06 | 11,539 | 1,209 | 10,330 |
| 16 | B | 14,454.59 | 13,004 | 2,840 | 10,164 |
| 17 | B | 17,182.01 | 607 | 320 | 247 |
| 18 | B | 19,811.80 | 0 | 0 | 0 |
| 19 | B | 13,024.43 | 0 | 0 | 0 |
| 20 | B | 10,608.44 | 8,382 | 0 | 8,382 |
| 21 | B | 9,985.90 | 9,849 | 0 | 9,849 |
| 22 | B | 9,276.78 | 9,277 | 0 | 9,277 |
| TOTALS | | 155,349.09 | 92,740 | 13,110 | 79,630 |

M:\31100\W\TOP 109/03 Phase I\TOP 109/03-03 (REVISED).vnt

Sheet 3

GRAPHIC SCALE

SCALE: 1" = 30'