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TITLE 16. TRANSPORTATION
CHAPTER 41F. VEGETATION CANOPY MANAGEMENT

CHAPTER AUTHORITY:

N.J.S.A. 27:1A-5 and 27:1A-6.

Expires on August 3, 2022.

SUBCHAPTER 1. GENERAL PROVISIONS

16:41F-1.1 Purpose

The purpose of this chapter is to enhance visibility of outdoor advertising signs while protecting vegetation on State highway right-of-way under the jurisdiction or control of the New Jersey Department of Transportation, by establishing standards for Vegetation Canopy Management.

16:41F-1.2 Scope

- (a) VCM will be allowed on highways under the jurisdiction and control of the Department.
- (b) The provisions of VCM will apply only to signs for which a valid outdoor advertising permit has been issued pursuant to N.J.A.C. 16:41C.
- (c) A VCM Plan shall be classified as either minor or major.
- (d) A VCM Plan meeting the following requirements shall be classified as minor:
 - 1. The VCM Plan is not proposed in a regulated area as provided at N.J.A.C. 16:41F-4.2(c);
 - 2. The VCM Plan is proposed for an area less than half an acre in size within which trees may be removed, pruned, or both; and
 - 3. Where the VCM Plan is proposed for an area for which a highway occupancy permit has previously been issued for a VCM Plan or for a general permit for landscaping, tree trimming, vegetation control, or unclassified landscaping; and the VCM Plan continues to meet the requirements provided in this subsection.
- (e) All VCM Plans not meeting the requirements of (d) above shall be classified as major.
- (f) The maximum area for inclusion in a VCM Plan shall be comprised of:
 - 1. A horizontal zone of visual influence of 200 to 400 feet approaching the face of an outdoor advertising sign as shown in N.J.A.C. 16:41F Appendix 3, Figures 1 and 2 and Table 2. The zone of visual influence begins at a point that is 0.25 times the VCM Distance (Point B) that corresponds to the roadways posted speed, shown in N.J.A.C. 16:41F Appendix 3, Table 2, measured from a point

perpendicular to the nearest point of the sign to the roadway edge (Point A). The zone of visual influence ends at the VCM Distance (Point C) that corresponds to the roadways posted speed, shown in N.J.A.C. 16:41F Appendix 3, Table 2. The zone of visual influence is intended to provide approximately 3.9 to 5.4 seconds of view time of the outdoor advertising sign to an approaching motorist; and

2. A vertical zone of visual influence, which is measured on a sight line from a point 3.5 feet above the roadway in the center of the travel lane nearest to the outdoor advertising sign to a point five feet below the bottom edge of the sign as shown in N.J.A.C. 16:41F Appendix 3, Figure 3.

(g) Applications for VCM shall be limited to a single sign location, unless the applicant owns two or more signs whose zones of visual influence overlap or are adjacent.

(h) Applicants for VCM shall be limited to the holder of the outdoor advertising permit.

(i) All approved VCM work will be governed by a highway occupancy permit issued pursuant to N.J.A.C. 16:41.

(j) Any removal, thinning, or partial removal of vegetation within State highway ROW, which is intended to enhance the visibility of an outdoor advertising sign shall be allowed only as approved by the Department pursuant to this chapter and the provisions of N.J.A.C. 16:41.

(k) Applications for VCM shall not be approved when:

1. Applicants have unresolved violations related to the outdoor advertising permit issued pursuant to N.J.A.C. 16:41C for the sign that is the subject of the VCM Plan;

2. Applicants have unresolved violations related to highway occupancy permits issued pursuant to N.J.A.C. 16:41, related to performing landscaping, tree trimming, vegetation control, or unclassified landscaping;

3. Vegetation management would result in the sign being visible from an additional highway, other than the highway for which visibility has been previously approved and an outdoor advertising permit issued, where the regulatory requirements for the issuance of an outdoor advertising permit on the additional highway would not be met;

4. It would be in violation of any locations or conditions as described in this chapter; or

5. A sign, not yet constructed, does not have all relevant municipal approvals.

SUBCHAPTER 2. DEFINITIONS

16:41F-2.1 Definitions

The following words and terms, when used in this chapter, shall have the following meanings, unless the context clearly indicates otherwise:

"ANSI A300 Standards" means the accepted industry standards for tree care practices developed by the American National Standards Institute. The ANSI A300 Standards, which are incorporated herein by reference, as amended and supplemented, can be found at <http://tcia.org/business/ansi-a300-standards>.

"Applicant" means the holder of a valid outdoor advertising permit issued pursuant to N.J.A.C. 16:41C who seeks approval to implement a VCM Plan to allow or improve the visibility of an off-premise outdoor advertising sign.

"Cleaning" means selective pruning to remove only dead or broken branches.

"Crown" means the leaves and branches of a tree measured from the lowest branch on the trunk to the top of the tree.

"Crown raising" means the removal of lower tree limbs to allow clearance or visibility beneath the tree crown while maintaining the natural symmetry of the tree.

"Crown reduction" or "reduction" means selective pruning to decrease height or spread of the crown.

"Crown thinning" or "thinning" means selective pruning to reduce the density of live branches.

"Department" means the New Jersey Department of Transportation.

"Flood hazard area" means as defined by N.J.A.C. 7:13-1.

"Hardwood" means trees, usually with deciduous leaves, including examples such as Ash, Beech, Cherry, Hickory, Maple, Oak, Plum, Poplar, Sweetgum, and Willow, with notable broadleaf evergreen exceptions, such as Magnolia.

"Historic site" means as defined by the New Jersey Register of Historic Places Act, N.J.S.A. 13:1B-15.128 et seq.

"Historic trees" means trees identified by the Community Forestry Program of New Jersey Department of Environmental Protection (NJDEP), Division of Parks and Forestry.

"No Net Loss Reforestation Act" means a law that requires State entities to replant trees when they are removed during development projects at least one-half acre in size pursuant to N.J.S.A. 13:1L-14.1 et seq.

"Pruning" means the selective removal of plant parts without damaging the natural symmetry of the vegetation or having a negative effect on its long-term health by cleaning, thinning, raising, or reduction.

"Removal" or "removed" means the elimination of trees or other vegetation.

"Riparian zone" means as defined by N.J.A.C. 7:13-1.

"ROW" means right-of-way.

"Scenic and historic highways" means any highway, or portion thereof, designated for inclusion in the New Jersey Scenic and Historic Highways Program in accordance with N.J.S.A. 27:5K-1 et seq.

"Scenic byway" means any highway, or portion thereof, that has been nominated or designated as a scenic byway by the Department. A list of scenic byways is available on the Department's website at www.state.nj.us/transportation/community/scenic/.

"Scenic corridor" means any highway, or portion thereof, that has been designated as a scenic corridor by the Department as found at N.J.A.C. 16:41C.

"Threatened or endangered species habitat" means habitat protected under 16 U.S.C. §§ 1531 et seq., and N.J.S.A. 23:2A-3.

"Trim" or "trimming" means the same as pruning.

"VCM" means vegetation canopy management.

"VCM distance" means a horizontal dimension of vegetation based on the official highway speed, designed to create a viewing time of approximately 3.5 to 4.5 seconds for approaching motorists.

"VCM height" means the vertical dimension of the vegetation canopy management area.

"Vegetation" means all woody and herbaceous plants either naturally occurring or planted.

"Vegetation canopy" means the leaf and stem area of plants, grasses, shrubs, and trees.

"Vegetation Canopy Management Plan" or "VCM Plan" means a plan by which existing vegetation within State highway ROW is reconfigured through pruning, selective removal, supplemental plantings, and other means, to produce and maintain a vegetation canopy that has sufficient horizontal and vertical dimension to allow visibility of outdoor advertising signs, but which also maintains a vegetated corridor for the motorist.

"Wetlands or Wetland Transition Areas" means as defined by N.J.A.C. 7:7A.

"Zone of visual influence" means the area from which an outdoor advertising sign is visible to a motorist as illustrated by N.J.A.C. 16:41F Appendix 3, Figures 1, 2, and 3 and Table 2.

SUBCHAPTER 3. CONTACT INFORMATION

16:41F-3.1 Contact information

(a) The address and phone number of the Bureau of Landscape Architecture and Environmental Solutions (BLAES) is:

New Jersey Department of Transportation
Bureau of Landscape Architecture and Environmental Solutions
1035 Parkway Avenue
PO Box 600
Trenton, NJ 08625
(609) 530-5670 or (609) 530-5673

(b) The address and telephone number of the Operations Permit Office is:

New Jersey Department of Transportation
Operations Permit Office
1035 Parkway Avenue
PO Box 600
Trenton, NJ 08625-0600
(732) 625-4330
(609) 588-6212 (Emergency only)

SUBCHAPTER 4. GENERAL PROVISIONS

16:41F-4.1 General restrictions

(a) A VCM Plan shall not be authorized:

1. Within a median;
2. On any State highway ROW acquired or designated specifically for landscape, scenic, storm water management, or environmental purposes;
3. Where it would be implemented adjacent to lands zoned exclusively for residential purposes or where the prevalent land use is residential as defined at N.J.A.C. 16:41C-2.1; or
4. Where it would be implemented on the following types of highways:
 - i. Scenic byway;
 - ii. Scenic corridor; or
 - iii. Scenic or historic highway.

(b) Depending on the scope of the VCM Plan, it may not be authorized:

1. If any of the following landscape materials would be affected:
 - i. Historic trees;
 - ii. Landscape materials installed using Federal funding; or
 - iii. Hardwood trees greater than six inches in diameter, measured 4.5 feet from the ground unless determined by the Department to be invasive or diseased; or
2. Within a traffic island.

16:41F-4.2 General conditions

(a) An approved VCM Plan shall be valid for a period of five years from the issuance of the highway occupancy permit.

(b) An approved VCM Plan shall be implemented in accordance with the ANSI A300 Standards.

(c) A VCM Plan shall be authorized for the following regulated areas only if the applicant has obtained any required permits, approvals, or notices, including, but not limited to:

1. Within Wetlands or Wetland Transition Areas;
2. Within a flood hazard area;
3. Within a riparian zone; and
4. Within a Federal or State threatened or endangered species habitat.

(d) Where tree removal results in an area of vegetation canopy removal that exceeds one-half acre, as measured pursuant to the No Net Loss Reforestation Act, compensation shall be provided in compliance with the act, as determined by the Department.

(e) Where the tree or shrub removal results in an area of vegetation canopy removal that is less than one-half acre, compensation regarding replacement tree or shrub size, species, and location, shall be as determined by the Department.

(f) If the proposed VCM Plan disturbs more than 5,000 square feet of soil, the applicant must prepare a soil erosion and sediment control plan and obtain approval of that plan from the appropriate Soil Conservation District.

(g) Trees of the size and type listed in N.J.A.C. 16:41F Appendix 2 can be selectively removed only when approved by the Department, and compensation is provided by supplemental plantings on site, or at a location determined by the Department.

(h) Evergreen trees may be removed only when approved by the Department.

(i) Thinning shall result in an even distribution of branches on individual limbs and throughout the crown.

(j) Pruning is restricted to cleaning, crown raising, crown reduction, and crown thinning.

(k) Crown raising may remove a maximum of 25 percent of a tree's leaf-bearing crown.

(l) Reducing a tree's size using heading cuts that shorten limbs or branches back to a predetermined crown limit, or severing the leader or leaders, or pruning a tree by stubbing of mature wood, shall not be permitted.

(m) Trees or shrubs damaged during implementation of a VCM Plan shall be replaced. The replacement tree or shrub size, species, and location shall be determined by the Department.

SUBCHAPTER 5. PRE-APPLICATION

16:41F-5.1 Pre-application meeting

(a) A pre-application meeting can provide an applicant with guidance on the application process, familiarize the Department with the proposed VCM Plan, and identify potential issues that should be addressed by the applicant in the VCM Plan application. A pre-application meeting is optional. Guidance provided at a pre-application meeting shall not be deemed to constitute final Department approval.

(b) Applicants for VCM may request a pre-application meeting, in writing, to the BLAES at the address found at N.J.A.C. 16:41F-3.1.

(c) A request for a pre-application meeting shall be accompanied by a description of the proposed location for VCM and the scope of work proposed by the applicant.

(d) Upon receipt of a request for a pre-application meeting the Bureau of Landscape Architecture and Environmental Solutions will schedule the meeting with the applicant, who shall be accompanied by the professional who will prepare the VCM Plan application, pursuant to the provisions of this chapter.

16:41F-5.2 Site screening by applicant

(a) Following a pre-application meeting, if held, and prior to entering Department property, an applicant shall prepare a preliminary site screening package for review by the Department to determine if a VCM permit would be appropriate for the subject site.

(b) The preliminary site screening package for both minor and major VCM Plans shall be submitted to the Bureau of Landscape Architecture and Environmental Solutions at the address in N.J.A.C. 16:41F-3.1.

(c) The preliminary site screening package for both minor and major VCM Plans shall include the following information:

1. Three copies of an aerial photograph base map of the site, at a scale no larger than one inch equals 600 feet, which shall show the following:

- i. Property lines;
- ii. Delineation of the proposed VCM area and its size measured in square feet; and
- iii. The following, as delineated, mapped, or identified by the New Jersey Department of Environmental Protection:

- (1) Wetlands;
- (2) Flood hazard areas;
- (3) Riparian zones;
- (4) Historic sites; and
- (5) Threatened or endangered species habitat;

2. A certification by a landscape architect or professional engineer licensed to practice in the State of New Jersey that the engineer has reviewed the preliminary site screening package and determined that the proposed VCM Plan is not prohibited by any of the provisions of this chapter; and for minor VCM Plans, that the work is not proposed in regulated areas as described at N.J.A.C. 16:41F-4.2(c); and

3. A response from the Natural Heritage Program regarding any threatened or endangered species in the area of the proposed VCM Plan.

(d) The preliminary site screening package for a major VCM Plan shall also include mapping delineating all applicable regulated areas as described at N.J.A.C. 16:41F-4.2(c).

16:41F-5.3 Review of preliminary site screening package

(a) Upon receipt of a preliminary site screening package the Bureau of Landscape Architecture and Environmental Solutions will review the information provided by the applicant.

(b) Within 30 days of receipt of the preliminary site screening package, the Department will advise the applicant that:

1. A VCM Plan cannot be approved as submitted, but may be amended and resubmitted;
2. The reasons why a VCM Plan application would be denied; or

3. A VCM Plan could be approved and that the applicant should apply for a highway occupancy permit pursuant to N.J.A.C. 16:41 to enter the State highway ROW to perform a site inspection pursuant to the requirements for development of a VCM Plan.

16:41F-5.4 Appeal of a determination that a VCM Plan would be denied

(a) The appeal process for a determination that a VCM Plan would be denied is as follows:

1. The applicant shall submit a written request for reconsideration to the Director of Capital Program Support at the address provided by the Department within 30 days of a notice from the Department. The request shall include reasons for the appeal.

2. Within 10 days of receipt of the reconsideration request, the Director of Capital Program Support shall schedule a meeting with the appellant and the Bureau of Landscape Architecture and Environmental Solutions, which shall take place within 30 days thereafter. The meeting will provide the appellant with an opportunity to present additional information in furtherance of the appeal.

3. The Director of Capital Program Support shall render a decision in writing within 15 days of the meeting and shall so notify the appellant. If the appellant does not agree with the decision of the Director of Capital Program Support, the appellant may submit a further appeal to the Assistant Commissioner of Capital Program Management within 15 days.

4. The Assistant Commissioner of Capital Program Management shall schedule an informal hearing within 10 days of receipt of the appeal. The Assistant Commissioner of Capital Program Management shall conduct the hearing. At the hearing, the appellant shall have an opportunity to present additional information.

5. In reaching the final agency decision, the Assistant Commissioner of Capital Program Management shall consider all of the information previously provided and the additional information presented at the hearing, as well as the provisions of this chapter and the public's right and interest in a safe and efficient highway system. The Assistant Commissioner of Capital Program Management shall render the final agency decision, with reasons, within 10 days of the informal hearing and shall notify the appellant in writing.

16:41F-5.5 Site investigation

(a) Applicants advised that a VCM Plan could be approved shall conduct a site investigation to develop a VCM Plan.

(b) Prior to conducting the site investigation, the applicant must apply for and receive a highway occupancy permit from the Operations Permit Office, pursuant to the requirements of N.J.A.C. 16:41. Applicants shall direct requests for highway occupancy permits to the address found at N.J.A.C. 16:41F-3.1. Highway occupancy permit application forms (MT-120A) can be found at: <http://www.state.nj.us/transportation/eng/forms/index.shtml#maintenance>.

(c) A joint field visit by the applicant and the Bureau of Landscape Architecture and Environmental Solutions (BLAES) may be required, after the issuance of the highway occupancy permit, at the discretion of the Department. If held, the BLAES will advise the applicant of any site specific field analysis required for the development of the VCM Plan.

(d) Following the joint field visit, if held, the applicant shall complete the site investigation and collect pertinent information in support of the development of a VCM Plan pursuant to the provisions of this chapter and the highway occupancy permit issued for this activity.

SUBCHAPTER 6. VCM PLANS

16:41F-6.1 Plan requirements

(a) Both minor and major VCM Plans shall describe initial VCM implementation activities and a five-year VCM Plan maintenance plan.

(b) Both minor and major VCM Plans shall be prepared by a landscape architect licensed to practice in the State of New Jersey and in accordance with the Department's 2007 edition of Standard Specifications for Road and Bridge Construction, Section 800 - Landscaping, incorporated herein by reference, as amended and supplemented, and the Department's 2007 edition of Sample Plans, incorporated herein by reference, as amended and supplemented, and shall include the following:

1. Photographs or rendering of the sign from the limits of the proposed VCM Plan area;
2. An aerial base map showing the VCM area;
3. Horizontal dimensions of the VCM area, as shown in N.J.A.C. 16:41F Appendix 3, Figures 1 and 2 and Table 2;
4. Vertical dimensions of the VCM area, as shown in N.J.A.C. 16:41F Appendix 3, Figure 3;
5. Identification of all trees greater than six inches in diameter, measured 4.5 feet from the ground, by size and species, and all shrub masses;
6. Graphic depiction of all proposed work;
7. List of supplemental plant materials to be installed, showing quantity, species, common name, size, and relevant comments;
8. Relevant construction notes;
9. Proposed work activity dates;
10. The area, in square feet, of soil disturbance and for VCM Plans with an area of soil disturbance of 5,000 square feet or more, a copy of approval of a soil erosion and sediment control plan by the appropriate Soil Conservation District; and
11. A copy of all required municipal approvals for the sign that is subject of the VCM Plan.

(c) Major VCM Plans shall also include:

1. Delineation of wetlands, flood hazard areas, and riparian zones on construction plans; and
2. Copies of all permits or approvals issued by any regulatory agencies required to execute the VCM Plan for regulated areas as provided at N.J.A.C. 16:41F-4.2(c).

16:41F-6.2 Plan submittal

Applicants shall submit the proposed VCM Plan, an application for a highway occupancy permit, and the appropriate application fee to the Operations Permit Office, pursuant to the requirements of N.J.A.C. 16:41. Applications shall be submitted to the address found at N.J.A.C. 16:41F-3.1. Permit application forms (MT-120A) can be found at:
<http://www.state.nj.us/transportation/eng/forms/index.shtml#maintenance>.

16:41F-6.3 Plan review and approval

(a) The Bureau of Landscape Architecture and Environmental Solutions (BLAES) review of a proposed VCM Plan shall not begin until all materials listed in N.J.A.C. 16:41F-6.1(b) have been received.

(b) The Operations Permit Office review of the highway occupancy permit application shall not begin until all permit application information and the permit application fee have been received.

(c) The BLAES and the Operations Permit Office will concurrently review the proposed VCM Plan and the highway occupancy permit application and, within 45 days of application submission, advise the applicant if the submission is deemed complete.

(d) Within 45 days of the submission being deemed complete, the applicant shall be advised if the proposed VCM Plan is approved, if it must be modified, or if it is rejected and the reasons for the rejection.

(e) The highway occupancy permit that will govern the VCM Plan shall not be issued until the proposed VCM Plan is approved by the BLAES.

16:41F-6.4 Plan conditions

(a) In addition to any conditions placed on the highway occupancy permit issued for an approved VCM Plan, a VCM Plan shall be subject to the following general conditions and such specific conditions as the Department may reasonably require, which shall be described in the highway occupancy permit.

1. All work conducted pursuant to an approved VCM Plan shall be under the direct supervision of a licensed tree care professional, certified tree expert, or certified arborist, or other such professional as designated by N.J.S.A. 45:15C-11, and in accordance with the ANSI A300 Standards.

2. The Department shall be notified in advance of any work being performed, pursuant to the requirements of the highway occupancy permit issued for the VCM Plan.

3. All work on deciduous trees shall be performed during the period of October 1 to March 15, unless otherwise allowed by the Department.

4. All plantings shall be installed, guaranteed, and maintained for a period of two years from Department acceptance, pursuant to the provisions of the highway occupancy permit issued for the VCM Plan.

5. All work shall be subject to Department inspection and acceptance.

(b) The highway occupancy permit number shall be displayed on each outdoor advertising sign subject to a VCM Plan, within 30 days of the permit issuance, and shall be continuously displayed for the permit's five-year duration. The display shall be placed in a conspicuous location on the sign structure so that it is visible from the highway to which the sign advertises. All characters shall be at least four inches tall.

SUBCHAPTER 7. VCM WORK

16:41F-7.1 VCM work

(a) During the five-year VCM Plan duration, the Department may, at its sole discretion, direct the permit holder to perform maintenance work to satisfy the provisions of the VCM Plan.

(b) Prior to initiating any maintenance work the permit holder shall notify the Department, pursuant to the requirements of the highway occupancy permit.

(c) All VCM work shall conform to the approved VCM Plan and be subject to the highway occupancy permit conditions.

(d) Any VCM work proposed subsequent to the expiration of the VCM Plan and highway occupancy permit shall require a new VCM Plan and permit applications pursuant to the requirements of this chapter.

SUBCHAPTER 8. APPEALS

16:41F-8.1 Appeal of a denied VCM plan application

(a) The appeal process for a VCM Plan application that has been denied is as follows:

1. The applicant shall submit a written request for reconsideration to the Operations Permit Office, within 30 days of a notice from the Department. The request shall include reasons for the appeal.

2. Within 10 days of receipt of the reconsideration request, the Operations Permit Office shall schedule a meeting with the appellant and the Bureau of Landscape Architecture and Environmental Solutions that shall take place within 30 days thereafter. The meeting will provide the appellant with an opportunity to present additional information in furtherance of the appeal.

3. The Operations Permit Office shall render a decision in writing within 15 days of the meeting and shall so notify the appellant. If the appellant does not agree with the decision of the Operations Permit Office, the appellant may submit a further appeal to the Director of Permits, Electrical and Claims Unit within 15 days.

4. The Director of Permits, Electrical and Claims Unit shall schedule an informal hearing within 10 days of receipt of the appeal. The Director of Permits, Electrical and Claims Unit shall conduct the hearing. At the hearing, the appellant shall have an opportunity to present additional information.

5. In reaching the final agency decision, the Director of Permits, Electrical and Claims Unit shall consider all of the information previously provided and the additional information presented at

the hearing, as well as the provisions of this chapter and the public's right and interest in a safe and efficient highway system. The Director of Permits, Electrical and Claims Unit shall render the final agency decision, with reasons, within 10 days of the informal hearing and shall notify the appellant in writing.

SUBCHAPTER 9. PENALTIES

16:41F-9.1 Penalties for unauthorized vegetation management activities

(a) Any vegetation removed without Department approval of a VCM Plan and issuance of a highway occupancy permit shall constitute a violation of the provisions of N.J.A.C. 16:41C and be subject to the penalties found in that chapter.

(b) Any violation of a highway occupancy permit issued in conjunction with the approval of a VCM Plan, including excessive removal beyond that authorized by the permit, shall constitute a violation of the provisions of N.J.A.C. 16:41 and be subject to the penalties found in that chapter.

(c) Second violations of either (a) or (b) above shall result in a denial of any subsequent VCM Plan applications for the sign owner for any signs, for a period of five years following the Department's final agency decision regarding that second violation.

APPENDIX 1 (RESERVED)

APPENDIX 2

Table 1
VCM TREES AND SIZES
SUBJECT TO DEPARTMENT APPROVAL FOR SELECTIVE REMOVAL

GENUS AND SPECIES	DIAMETER AT 4.5 FEET
Carya ovata	6" and above
Fagus grandifolia	8" and above
Ilex opaca	8" and above
Nyssa sylvatica	8" and above
Oxydendron arboreum	8" and above
Acer rubrum	12" and above
Acer saccharum	12" and above
Liriodendron tulipifera	12" and above
Quercus alba	12" and above
Quercus coccinia	12" and above
Quercus imbricaria	12" and above
Quercus phellos	12" and above
Quercus robur	12" and above
Quercus rubra	12" and above
Tilia cordata	12" and above
Tilia euchlora	12" and above
Tilia tomentosa	12" and above
Acer (other species)	18" and above
Liquidambar styraciflua	18" and above
Quercus (other species)	18" and above
Tilia (other species)	18" and above

APPENDIX 3

Figure 1 VCM Zones of Visual Influence: Double-Faced Sign

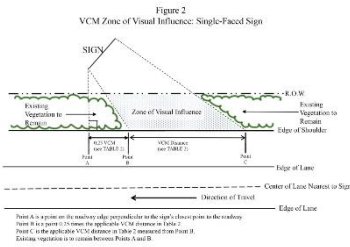
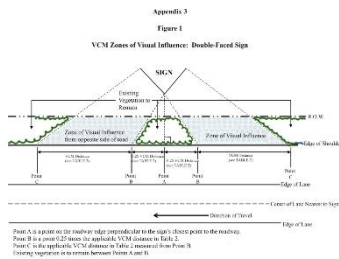
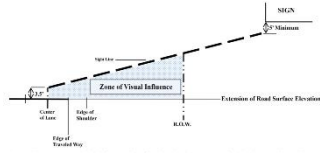


Table 2 VCM Zones of Visual Influence Horizontal Distance

Posted Speed (MPH)	VCM Distance (Feet)
35 and Below	200
40-50	300
55 and above	400

Figure 3
VCM Zone of Visual Influence: VCM Height



VCM Height: Measured on a right hand drive a point 5.7 feet above the road (driver's eye level) in the center of the road line cannot see the sign that is behind auxiliary sight is a point 7 feet below the sign of the previous roadway adjacent sign.