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BOARD OF SUPERVISORS BUSINESS MEETING ACTION ITEM

SUBJECT:	ZOAM-2017-0005 and DOAM-2018-0001: Amendment of the <u>Revised 1993 Loudoun County Zoning Ordinance</u> and the <u>Loudoun County Facilities Standards Manual</u> in Regard to Setbacks, Buffers, Screening, and Related Landscaping (To Include Cemetery, Burial Ground, and Grave Buffer Standards)
ELECTION DISTRICT:	Countywide
CRITICAL ACTION DATE:	At the pleasure of the Board
STAFF CONTACTS:	Josh Elkins, PLA, CZA, Planner, Planning and Zoning Alaina Ray, AICP, Director, Planning and Zoning Laura Edmonds, Public Review Committee Liaison, Building and Development Alan Brewer, Director, Building and Development

PURPOSE: To amend the <u>Revised 1993 Loudoun County Zoning Ordinance</u> (Zoning Ordinance) and the <u>Loudoun County Facilities Standards Manual</u> (FSM) buffering and screening regulations.

RECOMMENDATIONS: The recommendations of the Planning Commission (Commission), Zoning Ordinance Action Group (ZOAG), Facilities Standards Manual Public Review Committee (PRC), and Heritage Commission (HC) provided below reflect the prior version of the proposed amendments that included new regulations for preserving existing cemeteries. At the September 11, 2019, Board of Supervisors (Board) Public Hearing, the Board directed (8-0-1: Saines absent) staff to remove the draft regulations for preserving existing cemeteries from Zoning Ordinance Amendment (ZOAM)-2017-0005 and Development Ordinance Amendment (DOAM)-2018-0001 to be considered as a separate initiative that will receive further review by the Commission and the public before presentation to the Board for consideration. At the October 17, 2019, Board Business Meeting, the Board voted (9-0) to suspend the rules for the purpose of a new motion. The Board then forwarded (9-0) the item to the November 21, 2019, Board Business Meeting for action, and further directed that staff reinstate the proposed cemetery protection regulations in the draft text, to include the cemetery Preservation Buffer, and incorporate criteria for approval of administrative modifications of the cemetery Preservation Buffer.

Planning Commission: At the Commission Public Hearing on July 30, 2019, the Commission forwarded (5-3-1: Barnes, Jennings, and Priscilla opposed; Blackburn absent) ZOAM-2017-0005

and DOAM-2018-0001 to the Board with a recommendation of approval, with further recommendations to eliminate the cemetery Preservation Buffer and related requirements and add language to limit grading to a 3:1 slope in the area 25 feet beyond the limits of the cemetery Protection Buffer.

Zoning Ordinance Action Group: ZOAG supports approval of the ZOAM as included in Attachment 1 with one remaining issue to be considered. In regard to the Cemetery, Burial Ground, and Grave Buffers, ZOAG recommends that some land disturbance be allowed within the 25-foot Preservation Buffer without requiring a modification from the Zoning Administrator. Specifically, ZOAG recommends that grading, not to exceed a 3:1 slope, be permitted within the 25-foot Preservation Buffer, with the limitation that no improvements, such as buildings and parking, be permitted within such buffer.

Facilities Standards Manual Public Review Committee: PRC had no issues with the comprehensive revisions to the buffering and screening requirements and supports approval of the DOAM as included in Attachment 2. In regard to the new Cemetery, Burial Ground, and Grave Buffer, the PRC supports eliminating the 25-foot Preservation Buffer or permitting land disturbance and improvements 25 feet beyond the Protection Buffer without requiring a Cemetery, Burial Ground, and Grave Treatment Plan.

Heritage Commission: The HC prefers a non-modifiable, 50-foot buffer for cemeteries, burial grounds, and graves. The HC also supports the current draft text that requires a modifiable, 50-foot buffer, composed of a 25-foot Protection Buffer plus a 25-foot Preservation Buffer.

Staff: Staff supports Board adoption of the ZOAM and DOAM as provided in Attachment 1 and Attachment 2, respectively.

Given the complexity and scope of the proposed amendments, staff further recommends that the effective date be delayed until January 1, 2020. Moreover, staff recommends that the Board adopt the Transition Rules provided in Attachment 3 to address the "grandfathering" of certain active non-legislative land development applications officially accepted before the effective date.

BACKGROUND: The Board adopted (9-0) a Resolution of Intent to Amend (ROIA) initiating this ZOAM and DOAM on March 22, 2018. During the process of addressing agency referral comments, staff identified recommended changes to Article 1 and Article 8 of the Zoning Ordinance that were not included within the scope of the approved ROIA. As such, at the June 4, 2019, Board Business Meeting, the Board adopted (7-0-2: Meyer and Buffington abstained) a revised ROIA to include Article 1 and Article 8 within the scope of the ZOAM (Attachment 4).

The purpose of the ZOAM is to 1) ensure the buffering and screening standards of the Zoning Ordinance are appropriate for the intended forms of development throughout the County, and 2) provide sufficient flexibility to facilitate innovative site design and enable resolution of common design challenges and constraints. The companion DOAM will ensure consistency between the

updated Zoning Ordinance requirements and the corresponding technical design standards of the FSM. Additionally, the ZOAM and DOAM will address the Board Member Initiative (BMI)¹ that the Board approved (7-0-2: Buffington and Higgins absent) on March 7, 2017, that directed staff to develop ordinance language to preserve existing and historic cemeteries and burial grounds.

The Zoning Ordinance defines Buffering and Screening as, "any device or natural growth, or a combination thereof, which shall serve as a barrier to vision, light, or noise between adjoining properties, wherever required by this ordinance and further defined herein and in the FSM. Whenever used for screening or buffering purposes, "natural growth" shall be taken to mean "coniferous or deciduous trees, bushes and shrubbery."

The current buffering, screening, and related landscaping regulations of the Zoning Ordinance are a recurring source of modification requests with legislative applications. The prevalence of these modifications indicates that existing regulations do not effectively address evolving industry expectations and development conditions. The proposed amendments will establish appropriate landscape buffers and ensure that the public and development community understand what is reasonable and expected, which, in turn, will improve the land development review process and result in more desirable built outcomes, and perhaps fewer modification requests.

The Commission conducted a Work Session concerning the ZOAM and DOAM on July 11, 2019, and held a Public Hearing on July 30, 2019. Three speakers addressed the Commission in regard to the cemetery buffer provisions, and these speakers favored a cemetery non-disturbance buffer larger than 25 feet. One written comment requested that the environmental purposes of the buffering and screening standards be more explicitly identified. The Commission had no issues with the staff-recommended text amendments to the current buffer yard, screening, and setback requirements; discussion focused primarily on the proposed cemetery buffer. The Commission forwarded (5-3-1: Barnes, Jennings, and Priscilla opposed; Blackburn absent) the ZOAM and DOAM to the Board with a recommendation of approval, with further recommendations to eliminate the Preservation Buffer and related requirements and add language to limit grading to a 3:1 slope in the area 25 feet beyond the limits of the Protection Buffer, as provided in a prior draft.

The Board held a Public Hearing on September 11, 2019, and five speakers addressed the Board. These speakers asked that the Board revise the cemetery buffer requirements and ideally favored a 50-foot buffer for cemeteries, burial grounds, and graves. The Board forwarded (8-0-1: Saines absent) the item to the October 17, 2019, Board Business Meeting for action, excluding the Cemetery, Burial Ground, and Grave Buffer component of the amendments, which the Board directed staff to bring back to the Commission for consideration. The Board further directed staff to include an implementation policy with the Action Item that establishes the effective date of the amendments and clarifies their applicability to pending land development applications.

¹March 7, 2017, Board of Supervisors Business Meeting Action Item #15, Develop a Cemetery Preservation Ordinance to Protect Existing and Historic Cemeteries and Burial Grounds During the Land Development Process

At the Board Business Meeting on October 17, 2019, the Board voted (9-0) to suspend the rules for the purpose of a new motion. The Board then forwarded (9-0) the item to the November 21, 2019, Board Business Meeting for action, and further directed that staff reinstate the proposed cemetery protection regulations in the draft text², to include the cemetery Preservation Buffer, and incorporate criteria for approval of administrative modifications of the cemetery Preservation Buffer.

In accordance with Board direction, the draft Zoning Ordinance text in Attachment 1 has been revised to reinstate the proposed cemetery protection regulations, which establish a 50-foot Cemetery, Burial Ground, and Grave Buffer for the protection and preservation of existing cemeteries, burial grounds, and graves. The buffer will be composed of two components, the Protection Buffer and Preservation Buffer, each of which consists of 25 feet in width. The 25-foot Protection Buffer will extend outward from the edge of the delineated boundary of the cemetery, burial ground, or grave to protect the physical integrity of existing burials. This buffer can only be modified by approval of a Minor Special Exception application by the Board. The 25-foot Preservation Buffer will extend outward from the edge of the Protection Buffer to create additional separation from adjacent land uses in order to preserve the historic context of the existing cemetery. The Preservation Buffer may be modified by an administrative waiver, requests for which will be evaluated based on the criteria of Section 5-1409, to include how the historic context of the cemetery, burial ground, or grave will be preserved through alternative mitigation techniques. To further clarify the evaluation criteria, the draft text has been updated to include a description of the physical characteristics that define the historic context of a cemetery burial ground, or grave. The revisions to the administrative waiver criteria and process have been highlighted in the draft text for ease of reference.

The draft FSM text in Attachment 2 has been revised to reinstate the proposed cemetery protection regulations, which require a Phase I Archaeological Survey for site plan (STPL) and construction plans and profiles (CPAP) applications and delineation of the boundary of cemeteries, burial ground, and graves. The draft text further includes new standards for preserving historic cemeteries, burial grounds, and graves through the establishment of easements and provisions of protective barriers during construction. Additionally, the draft text establishes content requirements for a Cemetery, Burial Ground, and Grave Treatment Plan, which will be required with any administrative modification of the Preservation Buffer to evaluate and address the historic context of a cemetery, burial ground, or grave.

SUMMARY OF PROPOSED TEXT CHANGES: These proposed amendments are intended to be a comprehensive review and refinement of the County's current buffer yard, screening, and setback requirements. The following is a summary of the proposed amendments as provided in Attachment 1:

² October 17, 2019 Board of Supervisors Business Meeting Action Item #9, ZOAM-2017-0005 and DOAM-2018-0001: Amendments of the Revised 1993 Loudoun County Zoning Ordinance and the Loudoun County Facilities Standards Manual in Regard to Setbacks, Buffers, Screening, and Related Landscaping

- **1.** Article 1, General Regulations: Proposed amendments clarify how to measure road corridor buffer yards and setbacks from streets.
- 2. Section 5-600, Additional Regulations for Specific Uses: Proposed amendments delete the landscaping requirements for specific uses referenced in Section 5-653, which requirements are being consolidated into revised Section 5-1400. The buffer yard standards applicable to data centers specified in Section 5-664 are revised to promote year-round screening of such uses. Specifically, when a data center use is proposed adjacent to property within a residential zoning district and/or a collector or arterial road, an increased number of evergreen trees would be required per 100 linear feet of buffer yard, and the minimum height of such trees at time of planting would also be increased from six feet to eight feet.
- **3.** Section 5-900, Access and Setbacks From Specific Roads and the W&OD Trail: Deleted and its requirements consolidated into revised Section 5-1400, to include Road Corridor Buffer Yard Types for certain roads and road classifications.
- **4.** Section 5-1300, Tree Planting and Replacement: Revised to clarify that the street tree requirement of Section 5-1303(B)(4) applies to both sides of the street.
- 5. Section 5-1400, Buffering and Screening: This section is comprehensively rewritten. The current version of this Section can be viewed <u>here</u>. The proposed amendments will accomplish the following:
 - **a.** <u>Applicability</u> Clarify applicability and identify exceptions to the requirements of this Section.
 - **b.** <u>Plant Unit System</u> Establish a "Plant Unit" system for calculating buffer yard density. The Plant Unit system will establish a plant unit equivalent for each plant type (e.g., a large deciduous tree is equal to ten plant units), with each buffer yard type requiring a particular number of plant units and mix of plant types (e.g., a Type B Buffer Yard requires 80 plant units, a maximum of 50 percent of which may be large deciduous trees). Applying the Plant Unit system will achieve effective screening while allowing flexibility in the selection and composition of plant types within the buffer yard, which in turn will enable design that is more creative and capable of addressing site constraints. To ensure a mix of plant types and effective screening of uses, each buffer yard must adhere to a maximum number of plants for each plant type that can be counted toward the plant unit requirement.
 - **c.** <u>Road Corridor Buffer Types</u> Establish Road Corridor Buffer Types and base the front yard buffer on the classification of the adjoining street as opposed to the use located on the opposite side of the street to promote a consistent and complementary streetscape, regardless of land use pattern. The building and parking setbacks of Section 5-900 will be relocated to Section 5-1400 and a Road Corridor Buffer Type

applied to each specified road classification. The current Buffer Yard Type 5 applicable to segments of Route 50 and Route 7 will be renamed to Gateway Corridor Buffer, however, the specific requirements of this enhanced buffer will remain unchanged from the current ordinance.

- **d.** <u>Buffer Yard Matrix</u> Establish the side and rear buffer yard requirements for a use based on the adjacent use. The revised Buffer Yard Matrix of Table 5-1404(B) requires the more stringent buffer yard requirement apply to the more intense land use with the less intense land use required to provide a lesser buffer yard, thereby ensuring a clear nexus between land use intensity and screening responsibility. The matrix is also simplified by replacing specific uses with broad land use groups and including vacant land as a distinct use group to clarify the use buffers on adjoining developing parcels. For informational purposes, the Zoning Administrator will issue an advisory opinion on how the permitted uses listed in the Zoning Ordinance will be classified under the new broad use groups, as shown in the chart provided in Attachment 5.</u>
- e. <u>Buffer Location</u> Required side and rear buffer yards will be permitted to surround the proposed use as opposed to being located along the full length of the property line as currently required. This is beneficial when only a small portion of a large parcel is being developed and for allowing the buffer yard to be setback from site constraints along the edge of the property.
- f. Cemetery, Burial Ground, and Grave Buffer Establishes a 50-foot Cemetery, Burial Ground, and Grave Buffer for the protection and preservation of existing cemeteries, burial grounds, and graves. The buffer will be composed of two components, the Protection Buffer and Preservation Buffer, each of which consists of 25 feet in width. The 25-foot Protection Buffer will extend outward from the edge of the delineated boundary of the cemetery, burial ground, or grave to protect the physical integrity of existing burials. This buffer can only be modified by approval of a Minor Special Exception application by the Board. The 25-foot Preservation Buffer will extend outward from the edge of the Protection Buffer to create additional separation from adjacent land uses in order to preserve the historic context of the existing cemetery. The Preservation Buffer may be modified by administrative waiver, requests for which will be evaluated based on the criteria of Section 5-1409, to include how the historic context of the cemetery, burial ground, or grave will be preserved through alternative mitigation techniques. To further clarify the evaluation criteria, the draft text has been updated to include a description of the physical characteristics that define the historic context of a cemetery burial ground, or grave.
- **g.** Clarify requirements for screening certain on-site functions, such as loading areas, dumpsters, outside storage areas, maintenance areas, mechanical equipment, and utility equipment. Specifically, these functions may be screened using one of three

options, an opaque fence or wall, a berm with evergreen plantings, or any architectural element compatible with the building that screens the view of the equipment.

- **h.** Revise the interior parking lot landscaping standards to establish a minimum landscaped open space requirement equal to five percent of the gross area of the parking area. Additionally, ten plant units will be required for every 150 square feet of required landscaped open space.
- **i.** Revise the peripheral parking area landscaping to focus on screening of headlight glare by requiring a berm 30 inches or more in height and/or a continuous landscape strip consisting of 50 plant units per 100 linear feet.
- **j.** Establish an expanded administrative waiver and modifications process applicable to the entirety of Section 5-1400, including parking area landscaping, with the dual objectives of enabling flexibility for site-specific design solutions and reducing the need for legislative modification requests. In some cases a higher-level of review is specified for modifications, which shall supersede the general administrative waiver process for Section 5-1400.
- 6. Article 8, Definitions: This Article is amended to add and clarify terminology used in this amendment.
- **7.** Other Proposed Zoning Ordinance Changes: Articles 2, 3, 4, and 5 are amended to update specific section references that might be affected by the amendments to Section 5-900 and Section 5-1400. Additionally, the 50-foot perimeter open space buffer is proposed to be eliminated in all residential zoning districts with the updated use matrix relied upon to establish the appropriate buffer based on adjoining use(s).

The following Chapters and Sections of the FSM contain proposed amendments as provided in Attachment 2:

- **1. Chapter 7, Environmental Design Standards:** This chapter contains the following proposed amendments:
 - **a.** Add and/or amend references for the following guidelines and specifications:
 - i. Planting and maintenance of new plant material;
 - ii. Virginia invasive species list;
 - iii. Above-ground landscape containers and planters;
 - iv. Pruning methods; and
 - **v.** Reforestation planting.
 - **b.** Amend plant diversity standards.
 - **c.** Add soil suitability standards.
 - **d.** Provide sample buffer yard tables identifying required plant units.
 - e. Provide a plan sheet size requirement for Forest Management Plans.

- **f.** Amend required plant densities for reforestation, time of planting, and release/maintenance and restocking requirements.
- **g.** Relocate landscape material specifications associated with the current Type 5 Buffer Yard in the Zoning Ordinance to Table 3 of Chapter 7 and identify species required for Gateway Corridors.
- **h.** Amend Section 7.800, Archaeology and Historic Resources Section, to require a Phase I Archaeological Survey for site plan (STPL) and construction plans and profiles (CPAP) applications to delineate the boundary of cemeteries, burial ground, and graves. Phase I surveys are already required for preliminary subdivision applications.
- **i.** Create new standards for preserving historic cemeteries, burial grounds, and graves, including protective barriers during construction and easements.
- **j.** Establish content requirements for a cemetery, burial ground, and grave treatment plan.
- 2. Chapter 8, Administrative Procedures: This chapter contains amendments to specify site plan, construction plans and profiles, and subdivision applications that would require an archaeological survey report and boundary delineation/digital file for any identified cemeteries, burial grounds, and graves and archaeology notes to be provided on plans. Additionally, this chapter contains amendments to record drawings that would require a redline Tree Conservation and Landscape Plan if plantings do not conform to the approved quantities for each plant category.

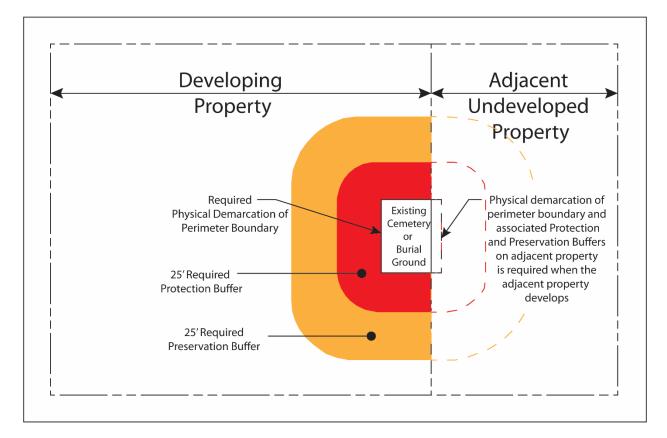
REFERRAL COMMENTS: The draft text for both the ZOAM and DOAM was prepared using referral comments received from the Department of Building and Development Natural Resources Team, the Department of Economic Development, Fire and Rescue, the Department of Transportation and Capital Infrastructure, the Community Planning Division of the Department of Planning and Zoning, ZOAG, the FSM PRC, and the HC. Referral comments are included in this staff report as Attachment 6. Most of the comments support adoption of the ZOAM and DOAM; however, there is one issue raised by PRC and ZOAG that involves the proposed buffer yard associated with the preservation of existing cemeteries, burial grounds, and graves. This issue is explained in greater detail below.

ISSUES: Cemetery, Burial Grounds, and Grave Buffer Width

At the July 11, 2019, Commission Briefing and at the July 30, 2019, Public Hearing on this item, the Commission expressed concerns about the size of the proposed buffer for cemeteries, burial grounds, and graves. The Commission was generally agreeable to the 25-foot Protection Buffer, but felt that the additional 25-foot Preservation Buffer (bringing the total cemetery buffer up to 50 feet) may be too large and not appropriate in suburban and urban settings, and recommended staff eliminate the Preservation Buffer and related requirements and add language to limit grading to a 3:1 slope in the area 25 feet beyond the limits of the cemetery Protection Buffer. The Commission's recommended language was included in the draft text considered by the Board at the September 11, 2019, Board Public Hearing, which multiple speakers cited as objectionable.

The ZOAG recommended that some land disturbance be allowed within the 25-foot Preservation Buffer without requiring a modification from the Zoning Administrator. Specifically, ZOAG recommended that grading, not to exceed a 3:1 slope, be permitted within the 25-foot Preservation Buffer, with the limitation that no improvements, such as buildings and parking, be permitted within such buffer.

The PRC recommended that the 25-foot Preservation Buffer be eliminated, as subsequently recommended by the Commission, or that land disturbance be permitted 25 feet beyond the Protection Buffer without requiring a Cemetery, Burial Ground, and Grave Treatment Plan.



Proposed Cemetery Buffer Standard

The recommended 25-foot Protection Buffer is intended to protect the physical integrity of existing burials and preservation of the natural and cultural features associated with the landscape. The Protection Buffer will extend outward from the edge of the delineated boundary of the cemetery, burial ground, or grave. No land disturbing activity is permitted within the Protection Buffer, except land disturbing activity associated with construction of a perimeter demarcation of the delineated boundary of the cemetery (by wall, fence, or pillar), the pedestrian access, and clearing of invasive vegetation on the surface, excluding any species that were planted in association with burials. The Protection Buffer can only be modified through a Minor Special Exception approved by the Board.

The second component is a 25-foot Preservation Buffer that is intended to create separation from adjacent land uses to preserve the historic context of the existing cemetery. The Preservation Buffer will extend outward from the edge of the Protection Buffer. The Preservation Buffer permits the same minimal level of land disturbing activity as the Protection Buffer, but can be modified by the Zoning Administrator through the new administrative modifications provisions of Section 5-1400. An administrative modification of the Preservation Buffer would require submission of a Cemetery, Burial Ground, and Grave Treatment Plan in accordance with FSM standards. This would allow staff to review each modification request and evaluate, on a site-by-site basis, the differences in the context of these historic cultural features.

FISCAL IMPACT: The proposed amendments are not projected to have any fiscal impact.

ZONING ORDINANCE CRITERIA FOR APPROVAL: Section 6-1210(D), Text Amendments, of the Zoning Ordinance states ". . .for an amendment of the text of this Ordinance, the Planning Commission shall consider the following matters:"

<u>Standard</u> Whether the proposed text amendment is consistent with the Comprehensive Plan.

Analysis The Loudoun County 2019 General Plan (2019 GP) was adopted (8-1: Umstattd opposed) by the Board at the June 20, 2019, Board Business Meeting. The 2019 GP does not provide specific guidance on screening and buffering that differs significantly from what was provided by the previous <u>Revised General Plan</u>. However, Community Planning staff notes that the Place Type approach to land use as described in the 2019 GP generally promotes compatibility of uses and unified site design through form-based considerations and thoughtful transitions among disparate uses. Overall, the additional flexibility enabled by the proposed amendments will encourage the type of creative approaches to streetscapes and transitions among uses envisioned in the 2019 GP.

The Heritage Preservation Plan recognizes that archaeological sites are finite, fragile, and non-renewable heritage resources that serve as tangible links to the prehistory and history of Loudoun. Chapter 2, Archaeological Resources, Policy 9 states that when archaeological resources are identified during the land development process, it is the County's primary objective to protect and conserve these resources. Policy 10 goes on to state that during the design process, the locations of identified significant archaeological resources will be a determining factor in the delineation of the required open space element.

<u>Standard</u> Whether the proposed text amendment is consistent with the intent and purpose of this Ordinance.

<u>Analysis</u> The purpose and intent of the Zoning Ordinance is provided under Section 1-102, which states: "This Ordinance is enacted in order to promote the health, safety and

welfare of the residents of Loudoun County and to implement the Loudoun County Comprehensive Plan." The amendment is consistent with the intent and purpose of the Zoning Ordinance by implementing the natural and heritage policies of the Comprehensive Plan. The proposed amendments promote the health safety and welfare of the residents of Loudoun County by allowing greater flexibility for design solutions in regard to preserving or screening viewsheds and implementing new standards for preservation of historic resources throughout the County.

ALTERNATIVES: Staff has identified the following alternatives for the Board's consideration:

- 1. The Board may adopt ZOAM-2017-0005 and DOAM-2018-0001 as included in Attachments 1 and 2, respectively, to take effect on January 1, 2020, and the Transition Rules included in Attachment 3.
- 2. The Board may adopt ZOAM-2017-0005 and DOAM-2018-0001 as included in Attachments 1 and 2, respectively, to take effect immediately.
- 3. The Board may forward this item to the Transportation and Land Use Committee (TLUC) for further discussion.

DRAFT MOTIONS:

1. I move that the Board of Supervisors adopt ZOAM-2017-0005 and DOAM-2018-0001 as provided in Attachments 1 and 2 of the November 21, 2019, Board of Supervisors Business Meeting Action Item, with an effective date of January 1, 2020, and the Transition Rules provided in Attachment 3 of the November 21, 2019, Board of Supervisors Business Meeting Action Item.

OR

2. I move an alternate motion.

ATTACHMENTS:

- 1. ZOAM-2017-0005 Draft Text
- 2. DOAM-2018-0001 Draft Text
- 3. Transition Rules
- 4. Revised Resolution of Intent to Amend the <u>Revised 1993 Loudoun County Zoning Ordinance</u> and the <u>Loudoun County Facilities Standards Manual</u>
- 5. Zoning Administrator Advisory Opinion on Use Classification
- 6. Referral Comments

1	Section 5-1400	Buffering and Screening.
2	5-1401	Purpose. The purpose and intent of this Section is to facilitate the creation of
3		a convenient, attractive and harmonious county; to conserve natural resources
4		including adequate air and water; to preserve the character of an area by
5		preventing or mitigating the harmful effects of one use on another use; and to
6		preserve and promote the health, safety and general welfare to the public.
7		More specifically, this Section is intended to mitigate the effects of uses on
8		adjacent uses by requiring a screen and/or buffer between the uses in order to
9		minimize the harmful impacts of noise, dust and other debris, motor vehicle
10		headlight glare or other artificial light intrusion, and other objectionable
11		activities or impacts conducted on or created by an adjoining or nearby use.
12		Also, this Section is intended to require the landscaping of parking lots in order
13		to reduce the harmful effects of heat and noise and the glare of motor vehicle
14		lights; to preserve underground water reservoirs and to permit the return of
15		precipitation to the ground water strata; to enhance the natural drainage system
16		and ameliorate storm water drainage problems; to reduce the level of carbon
17		dioxide and return pure oxygen to the atmosphere; to prevent soil erosion; and
18		to provide shade.
10		to provide shude.
19	5-1402	<u>Applicability.</u>
20		(A) The provisions of this Section shall apply to all development where site
21		plans and/or subdivisions are filed in accordance with the provisions of
22		Section 6-700 of this Ordinance or the Land Subdivision and
23		Development Ordinance.
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24		(B) The provisions of this Section are intended to complement the
25		regulations of Section 5-1300 of this Ordinance. Trees planted to fulfill
26		the Canopy requirements of Section 5-1300 may also fulfill the
27		Buffering and Screening requirements of this Section. However, where
28		any provision of this Section imposes restrictions or standards different
29		from those of Section 5-1300 or any other County ordinance or
30		regulation or other provision of law, whichever provisions are more
31		restrictive or impose higher standards shall control, unless the intent is
32		clearly otherwise.
33	5-1403	Standards. The following standards shall apply to the installation and
34	5-1405	maintenance of all landscaping and screening required by the provisions of this
35		Section.
55		
36		(A) The planting and maintenance of all trees and shrubs shall be in
37		accordance with the provisions of Facilities Standards Manual, and the
38		following requirements:
39		(1) The installation of all landscaping shall be done following the
40		procedures established by the American Association of
41		Nurserymen.
-		Section 5-1400

Section 5-1400 BOS Draft Date: November 21, 2019

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Attachment 1

1 2 3 4 5 6 7	caliper of one (1) inch diameter at breast height (d.b.h., measured at 4 and ½ feet above ground level), and all understory trees shall have a minimum height of six (6) feet. Evergreen trees shall be a minimum of six (6) feet in height. Evergreen shrubs shall have a minimum height of thirty (30) inches. Dwarf deciduous
8 9 10 11	 requirements of this Section, when supplemented by new vegetation, if needed, so as to provide buffering and screening in accordance with the
12 13 14 15	the requirements of this Section as part of an approval action of a special exception, variance, or as part of proffered conditions. In such
16 17 18 19 20 21	of a recorded sight distance easement granted to the County of Loudoun or the Commonwealth of Virginia shall be eliminated or reduced to meet the standards of such sight distance easement. This plant material must be located elsewhere on site in areas that provide room for viable
22 23 24 25 26 27	an existing or planned four-lane divided roadway shall provide, in lieu of otherwise applicable landscaping, buffering and tree planting along such roads, a Type 3 Front Yard Buffer along the property's frontage on such road, regardless of the present or planned future use on properties on the
28	5-1404 Landscaping Plan.
29 30 31 32 33	Image: Index and series of the secilities of the second section of the second
34 35 36 37 38 39 40	and distances, and shall delineate existing and proposed buildings, parking spaces or other vehicle areas, access aisles, driveways, and the location, size, and description of all landscaping materials and the installation schedule if materials are to be installed in phases extending beyond 90 days from the date of occupancy of the building or structure

1	(C) The landscaping required by this Section and depicted on such
2	landscaping plan shall be completed or bonded in accordance with
3	current County requirements prior to approval of any Certificate of
4	Occupancy.
5	5-1405 Buffer Yards and Screening, General Provisions.
6	(A) Buffer yards and screening shall be provided in accordance with the
7	Buffer Yard and Screening Matrix set forth in Section 5-1414(A), and
8	in accordance with the provisions of this Section and Section 5-1406,
9	5-1407 and 5-1408 below.
10	(B) Buffer yards and screening shall be provided on the lot whose use is
11	indicated in the left column of the matrix where it is contiguous to or
12	across the street from land used or zoned for uses indicated across the
13	top of the matrix, except as provided for in Section 5-1403(E) above.
14	(C) Where the structure or lot or development is to contain more than one
15	use or category of uses as presented in the matrix, the more stringent
16	requirements of the matrix shall apply; provided, however, that the
17	Zoning Administrator may reduce and/or modify the requirements of
18	the matrix upon a finding that the need for the more stringent
19	requirements has been partially mitigated or eliminated by the
20	arrangement of uses.
21 22 23 24	(D) The uses in the matrix are listed in abbreviated form. Other similar uses, as may be included in a listing presented in the district regulations, shall be subject to the same regulations as are presented for a use listed on the matrix.
25 26 27 28	(E) In those instances where a proposed use and/or an existing use on the abutting property is not listed in the matrix, the Zoning Administrator, using the matrix as a guide, shall determine to what extent buffering and screening shall be provided.
29	(F) In addition to the standards set forth herein for a particular use, all uses
30	allowed by special exception, or variance in a given district, shall be
31	required to provide buffer yards as determined by the BZA or Board of
32	Supervisors, as the case may be, using the matrix as a guide. In such
33	event, the requirements of such special exception, variance, or proffered
34	rezoning shall govern over the requirements of this Section.
35 36 37 38	5-1406 Determination of Buffer Yard Requirements. To determine the type of buffer yard required between two (2) adjacent parcels or parcels separated by public streets, refer to the buffer yard and screening matrix, and identify the buffer yard required pursuant to one of the following procedures:

1 2	(A)—	Proposed development adjacent to an improved property that is a pre-existing use.
3 4 5 6		(1) If the proposed use is in the same land use category or is a more intensive than the pre-existing use, the proposed use must provide the buffer yard type as required by the Buffer Yard and Screening Matrix.
7 8 9 10		(2) If the proposed use is less intensive than the existing use, the proposed use must provide the buffer yard type that would have been provided by the existing more intensive use as if it were subject to the requirements herein.
11 12 13		(3) The Zoning Administrator may waive reduce and/or modify the requirement if it presents a substantial hardship or is considered unnecessary as identified in Section 5-1409.
14 15 16 17	(B) —	Proposed development adjacent to a use developed subsequent to January 7, 2003. The proposed use must install plant units in order to bring the total buffer yard required between the two uses into conformance with the Buffer Yard and Screening Matrix.
18 19 20 21 22	(C)	Proposed Development Adjacent to a Vacant Property. The buffer yard type for a proposed development which will be constructed adjacent to vacant land, shall be based on the probable future use of the adjacent vacant land, using the Comprehensive Plan, Zoning Ordinance and Zoning District Map.
23 24 25		(1) If the proposed use is more intensive than the probable future use of adjacent vacant land, then the proposed use must provide a buffer as required by the Buffer Yard and Screening Matrix.
26 27 28 29 30 31		(2) If the subsequent use of the adjacent vacant land is more intensive than the probable use and the subsequent use is required to provide a buffer prescribed in the Buffer Yard and Screening Matrix, the buffer yard installed by the first use may be taken into consideration in considering a reduction of required buffer.
32 33 34 35 36		(3) If the subsequent use of the adjacent vacant land is less intensive than the probable use the subsequent use must install the difference between the plant units installed by the pre- existing adjacent use and the number of plant units required by the Buffer Yard and Screening Matrix.
37 38 39		(4) If the proposed use is less intensive than the probable future use of the vacant land, no buffer yard shall be required of the proposed use.

1 2 3 4 5	(D) —	Contractual Reduction of Buffer Yard Abutting Vacant Land. When a land use is proposed adjacent to vacant land, the owners of both parcels may enter into a contractual relationship to provide for a buffer yard equivalent to the buffer yard which shall ultimately be required. Such a contract shall include:
6 7 8		(1) A statement by the owner of the vacant land of an intent to develop at no greater than a specified land use category consistent with reduced buffer yards.
9 10 11 12		(2) An agreement that the owner of the vacant land assumes all responsibility for additional buffer yards required by the development of his parcel with a more intense use than had been agreed upon.
13 14 15 16		(3) The contract shall be in the form of a covenant or deed restriction, recorded in the Office of the Clerk of the Circuit Court of Loudoun County, Virginia, which shall run with the land.
17	(E)	-Special Situations.
18 19 20 21		(1) When the adjacent land is used for a wayside stand or other temporary use, the buffer yard type shall be determined as if the adjacent property were vacant as provided in Section 5-1406(C).
22 23 24 25 26 27 28 29 30		(2) If any property adjoins any existing or planned arterial road, except in the A-3, A-10, AR-1, AR-2 or Village Conservation Overlay Districts or where the Buffer Yard Type 5 is required by this Section, the required buffer yard shall be in accordance with Buffer Yard Type 3. This requirement may be waived, modified, and/or reduced by the Zoning Administrator, where necessary to preserve existing mature trees. No buffer yard shall be required for the A-3 and A-10 districts where such property adjoins any existing or planned arterial road.
31 32 33 34 35 36 37 38		(3) If any adjoining property is located within a zoned municipality, the applicant shall provide information regarding the applicable municipal zoning district regulations governing such adjoining property, so that the Zoning Administrator may determine which use established by this Ordinance is most equivalent. Requirements for buffer yards shall then be the same as if the adjoining property were zoned in the equivalent County zoning district.
39 40		(4) Notwithstanding the buffering and screening requirements of Section 5-1414(A):

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1 2 3 4 5		(a)	For any property that adjoins Route 50 between the Fairfax County line and Lenah Farm Lane on the north side and Trailhead Drive on the south side, the required buffer yard adjacent to Route 50 shall be in accordance with Buffer Yard Type 5.
6 7 8 9		(b) —	For any property that adjoins Route 7 between Broad Run and the east corporate limit of Leesburg, the required buffer yard adjacent to Route 7 shall be in accordance with Buffer Yard Type 5.
10	5-1407 B	uffer Yard and Sc	reening Requirements.
11 12 13 14 15 16 17 18 19 20 21	(4	parcel. When the buffer yar of way line of boundary or n natural featur property line, easements, e provided wit minimum bu	affer yards shall be located along the perimeter of a lot or e a parcel extends into the center line of an existing road, d shall begin at and extend inward from the ultimate right- f said road. Buffer yards shall extend to the lot line, parcel ights of way line, except where easements, covenants or res may require the buffer yard to be set back from the in which event the buffer yard shall be in addition to such ovenants or natural features. Buffer yards shall be hin the required minimum yard setback areas. If the ffer width is larger than the yard setback, the minimum must be provided.
22 23 24 25		struct (50) p	e case of driveways, parking areas, and accessory ares permitted within required yard setbacks, at least fifty ercent of the area of the required minimum yard setback hall consist of permeable materials.
26 27 28		minin	king and/or loading is permitted within the required num yard setback area, then Section 5-1413 "Parking Lot caping and Screening Requirements" shall prevail.
29	(3) Buffer/Scree	ning Requirements in Buffer Yards.
30		(1) Buffe	r yard requirements are stated in Section 5-1414(B).
31 32		× 2	plant materials identified in Section 5-1414(C) or their alents shall satisfy the requirements of this Section.
33 34 35			ever a wall, fence, and/or berm is required within a buffer they shall be provided in addition to the plant units ed.
36 37 38	ff	nay contain pedestr	A buffer yard may be used for passive recreation and it ian, bicycle or equestrian trails, provided that: a) the materials is minimized, b) the total width of the buffer is

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1 2 3 4 5		maintained, and c) all other regulations of this Ordinance are met. Utility easements may be included within buffer yards provided that the utility requirements and buffer yard requirements are compatible and canopy trees are not planted within said easement. Vehicular entrances may cross a buffer yard. Signs, pursuant to Section 5-1200, may be located in the buffer yards.
6 7 8 9 10	5-1409	Buffer Yard Waivers and Modifications. Buffer yard requirements may be waived or modified by the Zoning Administrator in any of the following circumstances. The Zoning Administrator may attach conditions to any waiver or modification in order to assure that the results of the waiver or modification will be in accordance with the purpose and intent of this Section.
11 12 13 14 15 16 17		(A) Where the strict provisions of this Section would reduce the usable area of a lot configuration or size to a point which would preclude a reasonable use of the lot, buffer yards may be waived, reduced and/ or modified by the Zoning Administrator, upon showing that the building and/or the yard has been designed to minimize adverse impact through a combination of architectural, landscape and/or other design techniques.
18 19 20 21		(B) The Zoning Administrator may waive, reduce and/or modify buffer yard requirements if in his opinion the topography of the lot providing the buffer yard and the lot being protected is such that the required buffer yard would not be effective.
22 23 24 25 26 27		(C) The Zoning Administrator may waive, reduce and/or modify buffer yard requirements for single family attached dwelling units where a six (6) foot permanent fence has been provided to enclose a privacy yard (for rear yards and side yards) and such fence is architecturally designed and coordinated with landscape techniques to minimize adverse impact to adjacent properties.
28 29 30		(D) The Zoning Administrator may waive, reduce or modify buffer yard requirements for any public use when such use has been specifically designed to minimize adverse impact on adjacent properties.
31 32 33 34 35		(E) Buffer Yard Exceptions. When a land use is proposed adjacent to a lake, wetland, or other natural area, which is to remain undeveloped, and which is at least three hundred (300) feet in width, the Zoning Administrator may waive, reduce, and/or modify the buffer requirements provided the intent of these regulations are preserved.
36 37 38 39 40		(F) The Zoning Administrator may waive, reduce and/or modify buffer yard requirements for side and rear yards where lots zoned MR-HI, GB, PD-IP, PD-GI, PD-OP, PD-RDP or CLI abut, upon finding that such waiver, reduction and/or modification is designed to complement proposed development of existing or proposed uses.

1 2 3 4 5 6 7		(G) The Zoning Administrator may waive, reduce and/or modify buffer requirements for a telecommunications monopole which is co-located on a facility which is owned or controlled by a public use or fire and/or rescue company, or in areas planned or zoned for employment and industrial uses where such use is permitted by right, provided the site is architecturally designed and coordinated with landscape techniques to minimize adverse impacts to adjacent properties.
8 9 10 11 12 13		(H) The Zoning Administrator, upon recommendation by the Loudoun County Sheriff's office with respect to public uses, or to meet requirements of the United States Government or agencies thereof relating to security or homeland defense, may waive, reduce or modify the screening requirements upon finding that the screening requirements create a security concern.
14 15 16 17		(I) In the A-3, A-10, AR-1, and AR-2 zoning districts, the Zoning Administrator may permit the required buffer to surround the proposed use, rather than to be located on the property line as required by Section 5-1407(A).
18	5-1410	<u>Maintenance.</u>
19 20 21		(A) The owner, or his agent, shall be responsible for the maintenance, repair and replacement of all required landscape materials and screening and buffering as may be required by the provisions of this Section.
22 23		(B) All plant material shall be tended and maintained in a healthy growing condition, replaced when necessary and kept free of refuse and debris.
24 25 26		(C) Fences and walls shall be maintained in good repair. Openings within the barriers may be required by the Zoning Administrator for accessibility to an area for necessary maintenance.
27 28 29 30	5-1411	Bond/Cash Deposit Requirements. In lieu of installation of the landscape materials prior to occupancy, the applicant may post a bond acceptable to the County, conditioned upon satisfactory installation of the landscaping proposed in the landscape plan.
31 32	5-1412	Appeals. Any person aggrieved by a decision of the Zoning Administrator may appeal such decision in accordance with the provisions of Section 6-1700.
33	5-1413	Parking Lot Landscaping and Screening Requirements.
34 35		(A) General. Parking lot landscape and screening plan shall comply with the standards in Section 5-1403 and 5-1404.
36 37		(1) Existing vegetation which is suitable for use in compliance with the requirements of this Section when supplemented so as to

1	provide planting and screening in accordance with the purpose
2	and intent of this Section, may be used as required planting.
3	Additionally, vegetation which fulfills the requirements set
4	forth herein for exterior parking lot screening may also be
5	counted toward fulfilling the requirements for buffer yards set
6	forth in other sections of these regulations.
7	(2) When non-residential parking lots, travelways, alleys, loading
8	spaces and like uses adjoin land zoned or planned for residential
9	use, there shall be an opaque barrier constructed to provide a
10	separation between the two uses. This can be achieved by a
11	solid type fence no less than six (6) feet in height, or with
12	densely planted shrubs and berms to provide a visual barrier.
13	Berms shall not exceed a slope of 2:1.
14	(B) Interior Parking Lot Landscaping.
15	(1) Any parking lot, excepting single bay parking lots of twenty
16	(20) spaces or less, shall be provided with landscaped open
17	space along the perimeter of the parking area or areas, in the
18	minimum rate of one (1) canopy tree per ten (10) spaces which
19	shall be so located that no parking space is more than eighty
20	(80) feet from a portion of the landscaped open space or parking
21	island more than eighty (80) feet from a canopy tree.
22	Landscaped areas between parking areas and buildings shall not
23	be considered as parking lot landscaping.
24	(2) The primary landscaping materials used in parking lots shall be
25	canopy trees. Where possible, grouping of such trees is
26	encouraged. Shrubs and other live planting materials may be
27	used to complement the tree landscaping, and shall count
28	towards the required landscaping.
29	(3) The landscaping areas shall be reasonably dispersed throughout
30	the parking lot, and shall have a minimum width of six (6) feet.
31	There shall be a minimum six (6) foot wide landscape island at
32	the end of every row of parking - equal in length to the adjoining
33	parking space.
34	(4) There shall be a minimum of one (1) canopy tree per required
35	landscape island. Where more than one island is combined in a
36	linear configuration, canopy trees shall be provided at a
37	minimum equal to the number of required landscape islands.
38 39	(5) The interior dimensions of any planting area shall be sufficient to protect all landscaping materials planted therein.

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1	1 2 3 4		interi	s used principally for storage of vehicles do not require ior islands if such areas are screened from adjacent erties and public streets in accord with Section 5-1406 and 07.
	5 6 7 8	(C) —	adjoin a bul contains twe	Parking Lot Landscaping. Except where parking areas ffer yard required by this Ordinance, if any parking lot nty (20) or more spaces, peripheral parking lot landscaping hired as follows:
	9 10		(1) Whe of-w	e n the property line abuts land other than street right- ay.
	11 12 13 14 15 16 17 18 19		(a)	A landscaping strip ten (10) feet in width measured from the edge of pavement, shall be located between the parking lot and the abutting property lines, except where driveways or other openings may necessitate other treatment. Where abutting parcels share a common access drive or parking lot circulation travelway, no such landscaping strip shall be required, provided that equivalent planting materials are provided elsewhere on the development site.
	20 21 22 23 24		(b)	Parking and vehicular traffic circulation lanes shall be screened with either berming, landscaping, or a combination of both to a minimum height of thirty (30) inches. Berming height of thirty inches shall not exceed a minimum slope of 2:1.
	25 26 27 28 29 30 31 32		(c) -	All service areas shall be screened from view through the use of evergreen plant materials and screen walls, compatible with the building design. Service area screen walls, solid fences or fences shall be softened with climbing vines, shrubs, or other plant materials. Plantings shall be a minimum height of six (6) feet and totally screen at least 75% of any one wall surface (exclusive of gates).
	33 34 35 36 37 38		(d)	All utility equipment (i.e. meters, pedestals, transformers, etc.) not within the screened service area shall have a natural evergreen planting screen provided, but such plantings shall be planned and installed so as not to hinder the installation or maintenance of such utility equipment.
	39 40		(e)	Peripheral plantings shall include six (6) shrubs per forty (40) linear feet of abutting land, and one of, or a

1 2	combination of the following, which need not need not
3	(i) One understory tree per fifteen (15) linear feet;
4	(ii) One canopy tree per thirty-five (35) linear feet.
5	(2) Where the property line abuts the street right-of-way.
6	(a) A landscaping strip ten (10) feet in width, exclusive of
7	a required sidewalk or trail, shall be located between the
8	parking lot and right-of-way line.
9	(b) Parking and vehicular traffic circulation lanes shall be
10	screened with either berming, landscaping, or a
11	combination of both to a minimum height of thirty (30)
12	inches. Berming shall not have a slope steeper than 2:1.
13	(c) All service and loading areas shall be screened from
14	view through the use of evergreen plant materials and
15	six (6) foot solid fences or screen walls compatible with
16	the building design. Service and loading area screen
17	walls or fences shall be softened with climbing vines,
18	shrubs, or other plant materials. Plantings shall be a
19	minimum mature height of six (6) feet at time of
20	installation and totally screen at least seventy five
21	percent (75%) of any one wall surface (exclusive of
22	gates).
23	(d) All utility equipment (i.e. meters, pedestals,
24	transformers, etc.) not within the screened service area
25	shall have a natural evergreen planting screen provided,
26	but such planting shall be planned and installed so as not
27	to hinder the installation or maintenance of such utility
28	equipment.
29	(e) At least one (1) tree for each twenty-five (25) linear feet
30	of land abutting any right-of way shall be planted in the
31	landscaping strip; however, this requirement shall not
32	be construed as requiring the planting of trees on
33	twenty-five (25) foot centers.
34	(f) Where peripheral landscaping required by this Section
35	conflicts with street planting regulations of the Virginia
36	Department of Transportation, the more restrictive
37	standards shall apply.

1 2 3	parkii	irements for Parking Lots in Residential Districts. Where any lots for more than ten (10) cars are permitted or required in ential districts, the following provisions shall be complied with:
4 5 6	(1)	The lot may be used only for parking and not for any type of commercial loading, sales, dead storage, repair work, dismantling or servicing.
7 8 9 10	(2)	A ten (10) foot wide landscaped open space area adjoining any street line or any lot zoned or planned for residential uses shall be provided, guarded with wheel bumpers or curb and gutter and planted in grass and/or shrubs.
11	5-1414 Buffer Yard	and Screening Matrix.
12 13 14 15 16	1406(Type separa	Fable 5-1414(A) below. Note: Also, please see Section 5- (E), Special Situations, which requires a specific Buffer Yard in certain situations. Please note that required buffer yards are a ate regulation in the Ordinance which may require a different than a required yard, setback or building restriction line.

		Ta	ble 5 -	-1414	(A)								
PROPOSED LAND USE GROUPS	1	2	3	АІ 4)JACI 5	ENT L 6	AND 7	USE (8	GROU 9	PS 10	44	<u>12</u>	13
Group 1- Dwelling, Single Family Detached	N/A	1	4	2	2	2	3	3	4	4	3	4	2
Group 2- Dwelling, Single Family Attached	4	N/A	4	2	2	2	3	3	4	4	3	4	2
Group 3- Dwelling, Multi Family Congregate Housing Facility Continuing Care Facility Orphanage or other similar institutions	+	+	N/A	+	+	+	+	2	4	4	3	4	2
Group 4 — Day Care Center — Church, Chapel — Nursery School — Elementary School	2	2	+	N/A	4	4	2	2	3	4	3	4	2
Group 5 Middle and High School Community & Recreation Center, and Library Auditorium, Performing Arts Center and Assembly Hall, and Theater (indoor)	2	2	+	1	N/A	4	1	2	3	4	3	4	N/A

		Ta	ble 5	-1414	(A)								
PROPOSED LAND USE GROUPS	1	2	3	A 4)JACI 5	ent l 6		USE (8		PS 10	11	12	13
Municipal and Governmental Building and Structure Fire, Police, and Rescue Station Medical Care Facility Hospital													
Group 6 Financial Institution Office Business Service Establishment Retail Sales Establishment Health & Fitness Center Funeral Home, Mortuary, Crematory Personal Service Establishment	2	2	+	+	4	N/A	N/A	N/A	3	4	2	4	N/A
Group 7- Craft Beverage Manufacturing Restaurant Hotel/Motel	3	3	1	2	4	N/A	N/A	N/A	3	4	N/A	4	N/A
Group 8 Drive in Bank Facility Fast Food Restaurant Drive Through Restaurant Auto Service Station Car Wash Mobile Home Sales and Service Parking Lot/Valet Service Flex Industrial Warehousing & Storage Facility Data center	3	3	2	2	2	N/A	N/A	N/A	N/A	2	2	4	N/A
Group 9 Utility Transmission Facility Public Utility Service Center, Storage Yard Telecommunication Facility Radio & Television Broadcasting Station, including Recording Studio Municipal or Governmental Storage Yards & Related Facility Water Treatment and Distribution Facility Kennel, outdoor	4	4	4	3	3	3	3	N/A	N/A	N/A	2	3	N/A
Group 10 Bus, Rail, and Truck Terminal Outdoor Storage, Vehicles Newspaper Offices and Distribution Service	4	4	4	4	4	4	4	2	3	N/A	N/A	2	N/A

		Ta	ble 5	-141 4	(A)								
PROPOSED LAND USE GROUPS				A			AND				4.4	10	
Lumber & Building Material Yard and Storage Facility Wholesale Trade Office and Storage Facility Heavy Equipment Sale, Rental, and Service Sand, Gravel, Coal & Earth Sales	+		3	4	5	6	7	8	9	10	11	12	+3
and Storage Facility Boat Sales, Storage and Service Recycling Center Vehicle Wholesale Auction													
Group 11 Wholesale Printing Laundry, Cleaning, and Dyeing Plant Facilities for Manufacturing,	3	3	3	3	3	2	N/A	2	2	N/A	N/A	3	N/A
Processing, Assembly, Packaging, Bottling, and Canning													
Group 12 Asphalt or Concrete Mixing Plant General Construction Company, including Hauling, Road Paving, Roofing, and Sewer Metal Fabrication Shop Metal Salvage and Open Storage Yard and Operation Agriculture Processing Facility Outdoor Movie Theater Wood Processing Facility or Sawmill Forging Plant Rifle and Pistol Range, outdoor Sewage Treatment Facility Sanitary Landfill Rendering or Tanning Plants Petroleum or Chemical Refining or Production Ship Yards and Boat Manufacture Junk Yard Fuel Sales	4	4	4	4	4	4	4	4	3	2	3	N/A	N/A
Group 13 Farming, including livestock and horticultural activity Fur Bearing Animal Raising Stable and Equestrian Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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(B) Buffer Yard.

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	Required Plan	tings per 100 l			ine		
Buffer Yard Type	Canopy Trees	Understory Trees	Shrubs	Evergreen Trees	Other Requirements		
(1) Type 1			-				
Front	2	θ	θ	θ	10' minimum width 25' maximum width		
Side/Rear	+	4	θ	θ	10' minimum width 25' maximum width		
(2) Type 2							
Front	3	2	10	θ	15' minimum width 25' maximum width		
Side/Rear	2	4	10	2	20' minimum width 30' maximum widt		
(3) Type 3					-		
Front	3	3	20	θ	20' minimum width 30' maximum width		
Side/Rear	2	5	10	4	25' minimum width 30' maximum widt		
(4) Type 4							
Front	4	3	20	θ	20' minimum width 30'maximum width		
Side/Rear	2	5	10	8	25' minimum width 30' maximum width A Six foot high fence, wall, or bern providing a minimum opacity of 95%		
	(5)	Buffer Yard	Type 5.				
		(a) BUFF	ER YARD '	WIDTH: 100'	Minimum		
(b) REQUIRED PLANT UNITS PER 100 LINEAR FEET:							
-4 - Canopy Trees							
				story Trees			
			50 - Shrub	5			
			-2 - Everg	reen Trees			

1 2 3 4	(c)	PLANTING SIZE: Notwithstanding the plant sizes specified in Section 5-1403(A)(2), the plants for the Buffer Yard Type 5 shall be the following minimum sizes at the time of planting:
5 6 7 8		Canopy trees: 2.5 inch dbh caliper Understory trees: 8 foot height Evergreen trees: 8 foot height Shrubs: 30 inch height
9 10	(d)	- DESIGN ELEMENTS SPECIFIC TO THE ROUTE 50 CORRIDOR:
11 12 13		(i) PLANT LOCATION: The plants required in Section 5-1414(B)(5)(b) above shall be installed on the parcel as follows:
14 15 16 17		a. The plants shall be located within the first 50 feet of the required 100 foot Buffer Yard immediately adjacent to the right of way of Route 50.
18 19 20		b. Each 100 foot segment of frontage shall contain the plants required per 100 linear feet.
21 22 23		c. The plants shall be located in front of the linear element required in Section 5-1414(B)(5)(d)(ii) below.
24 25 26 27 28 29		d. The plants and the linear element shall be configured to align with the plants and the linear element on adjacent parcels, thereby creating a uniformly landscaped frontage along the right of way, where feasible.
30 31 32 33 34 35		(ii) LINEAR ELEMENT: A linear element of not less than 40% of a parcel's frontage shall be provided within the Buffer Yard Type 5 adjacent to Route 50 and shall consist of a stone faced feature and may also include a fence and/or hedgerow.
36 37 38 39		a. The stone faced feature (i.e. wall, pillar, sign, and the like) shall be faced with materials having characteristics similar to native stone. Notwithstanding the Section 5-1400

Section 5-200 height limitation for fences in front yards, the stone faced feature shall be a minimum of 3 feet in height. If combined with a fence or hedgerow, the stone faced feature shall have a minimum length equal to 10% of a parcel's frontage.

Notwithstanding the height limitation of Section 5-200 for fences in front yards, the fence shall be a maximum height of 4.5 feet, as measured from the ground to its highest point, to include posts or other supporting structures. The fence shall be constructed of wood or a wood-like polymer in a rail, paddock, or horizontal board design and shall have a minimum opacity of 50%.

The hedgerow shall consist of a minimum of 10 shrubs planted in a continuous row, planted 36 inches on center and at a minimum height of 30 inches. The shrubs shall be chosen from the Buffer Yard Type 5 Plant List in Section 5-1414(C). The shrubs used in the hedgerow do not count towards fulfilling the required plant units in Section 5-1414(B)(5)(b) above.

The linear element is not required to be a continuous element. However, if any portions of the linear elements overlap, then for the length of the overlapping elements only one element can be counted towards satisfying the required length.

Areas of existing vegetation used to meet the Buffer Yard Type 5 plant requirements shall be excluded for the purposes of calculating the frontage length for determining the required minimum length of the linear element.

f. The linear element does not have to be located parallel to the road, however, the

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1 2	required length is measured parallel to the road.
3	g. The linear element can be used towards
4	fulfilling the Peripheral Parking Lot
5	Landscaping requirements in Section 5-
6	1413(C).
7	(e) DESIGN ELEMENTS SPECIFIC TO THE ROUTE 7
8	CORRIDOR:
9	(i) PLANT LOCATION: The plants required in
10	Section 5-1414(B)(5)(b) above shall be installed
11	on the parcel as follows:
12	a. The plants may be located within the full
13	100 foot width of the required Buffer
14	Yard immediately adjacent to the right of
15	way of Route 7.
16	b. The total plants required for each 100
17	foot segment of frontage shall contain
18	the plants required per 100 linear feet,
19	except that plants may be relocated
20	within the buffer yard where existing
21	environmental constraints or public
22	utility easements prevent planting within
23	a particular segment.
24	(ii) POLLINATOR HABITAT: Plantings within the
25	required Buffer Yard shall consist of plant
26	material that supports pollinator habitat, as
27	follows:
28	a. <u>A minimum of 50% of the plantings</u>
29	required by Section 5-1414(B)(5)(b)
30	shall consist of native species as
31	specified in the Facilities Standards
32	Manual.
33	b. A minimum of 75% of the understory
34	trees and shrubs required by Section 5-
35	1414(B)(5)(b) shall produce
36	conspicuous flowers at some point
37	during their growing season.

1 2 3	(f)	uses specifi	UFFER YARD TYPE 5: In addition to the ied in Section 5-1408, the following uses are n the Buffer Yard Type 5:
4 5 6 7 8 9		Suc 50-f faci	rm water management and BMP facilities. h facilities may not be located within the first feet adjacent to the right-of way, unless the lity is designed as a water feature in ordance with Section 5-1414(B)(5)(f)(ii) ow.
10 11 12 13 14 15 16 17 18 19		elen and four bior whe desi with the	vater feature, defined as a permanent aqueous ment to include a fountain, stream, waterfall, /or cascade; a wet pond that includes a main, waterfall and/or cascade; or a retention facility and/or wetland. In the case ere a water feature is incorporated in the ign of the Buffer Yard Type 5 and located win the first 50 feet immediately adjacent to right of way, the following variations are mitted:
20 21 22 23 24		a.	The number of shrubs required by Section 5-1414(B)(5)(b) above may be reduced by 50% for the total amount of linear feet of frontage that is occupied by the water feature; and
25 26 27 28 29 30 31 32 33 34		b.	Notwithstanding Section 5- 1414(B)(5)(d)(i) and 5-1414(B)(5)(e)(i) above, regarding required plant locations, for the frontage occupied by the water feature, the required canopy trees are to be located between the right- of-way and the water feature and the required understory trees, evergreen trees and shrubs may be located around and behind the water feature
35 36 37 38 39 40 41 42	(g)	Buffer Yard the approva site plan or application demonstrati 100-foot Bu	ON: Notwithstanding Section 5-1409, the d width may be reduced to 50 feet subject to al of the Zoning Administrator at the time of r preliminary subdivision application. An for Buffer Yard reduction shall include a ion by the applicant that adherence to the uffer Yard requirement would unreasonably development due to topography or lot

1			preover, evidence shall be provided the ds available to alleviate the constrain	
2 3			as available to alleviate the constrain isted. The request shall include a pla	
4			uffer Yard reduction and the quantity	
5			n of the plant units required in Section	
6			above and the linear element require	đ
7		in Section 5-141	4(B)(5)(d)(ii) above.	
8	(h)		SCAPING AND SCREENING: When	-
9			equires the screening of parking, servic	
10			as, and utility equipment from roads	
11			as may be necessary shall be in additio	
12 13			Yard Type 5 plantings and shall b	
13 14			the Buffer Yard Type 5, but outside c of the required 100 foot wide Buffe	
15			ed from the right of way.	T
10		i ura do medodre	a nom monghe of way.	
16	(C) Plant Types.			
17	(1) Cano	py Tree. A decidi	uous tree, usually single trunked, with	a
18			n of foliage, which attains a matur	
19			t. Preferred species include, but are no	
20	limite	d to:		
	Car	mmon Name	Botanical Name	
		erican Sycamore	Platanus occidentallis	
		kgo (Male)	Ginkgo bilboa	
		mese Pagoda	Sophora japonica	
	Japa	mese Zelkova	Zelkova serrata	
	Jape	onica Regent	Sophora japonica regent	
	Littl	eleaf Linden	Tilia cordata	
		don Plane	Plantanus acerifolia	
	Pin		Quercus palustris	
		Oak	Quercus borealis	
		Maple er Linden	Acer rubrum Tilia tomentosa	
		ar Maple	Acer saccharum	
		et Gum	Liquidambar styraciflua	
		rnless Honey Locust	Gleditsia triacanthos inermis	
		low Oak	Quercus phellos	
		owwood	Cladrastis lutea	
21 22	(2) Ever g	Freen Trees A ne	on-deciduous tree used for the purpose	S.
23			barrier, or accent planting. Preferre	
24		es include, but are		-
	1			
	<u>Co</u>	mmon Name	Botanical Name	

Section 5-1400 BOS Draft Date: November 21, 2019 American Holly Dark American Arborvitae Eastern Red Cedar Norway Spruce White Pine

Llex opaca Thuja occidentalis nigra Juniperus virginiana Picea abies Pinus strobus

Botanical Name

(3)Understory Tree. A deciduous or evergreen tree which attains a mature height of no greater than 30 feet. Understory trees often times prefer shade and grow naturally under a canopy of larger trees. Preferred species include, but are not limited to:

Common Name

(1)

American Plum Prunus americana Amur Maple Acer griseum Dogwood Cornus florida Downy Serviceberry Amelanchier arborea Flowering Cherry Prunus (various species) Flowering Crabapple Malus (various species) Golden Raintree **Koelreuteria** Golden Chain Laburnum Vossi Red Bud Cercus canadensis Shadblow Washington Hawthorne

Amelanchier canadensis Crataegus plaenopyrum Shrub. A deciduous or evergreen multi-trunked woody plant

that usually attains a mature height of no greater than 10 feet. Preferred species include, but are not limited to:

Botanical Name
various species
various species
Llex cornuta
Taxus baccata
various species
Llex crenata
Taxus cuspidata
various species
various species
various species

Permitted Buffer Yard Type 5 Plants. (2)

(a) - General Requirements.

For the purpose of reducing the monoculture disease risk, no one plant species can be used for more than 300 linear feet of frontage.

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(b) Boulevard Plants – Permitted Canopy Trees.

Botanical Name	Common Name	Acceptable	Suitability	Comments
		Varieties		
		& Cultivars		
Acer rubrum cvs.	Red Maple	'Brandywine'		
		'Red Sunset'		
		'October Glory'		
Acer saccharum evs.	Green Mountain	'Green		
	Sugar Maple	Mountain'		
Aesculus	Horsechestnut			
<i>hippocastanum</i>				
Fagus grandifolia	American Beech			
Fagus sylvatica evs.	European Beech	Various		
Liquidambar	Sweetgum	Various		
styraciflua evs.				
Platanus x acerifolia	London Plane	<u> 'Bloodgood'</u>		
CVS.	Tree			
Platanus occidentalis	American			
	Sycamore			
Quercus falcata	Southern Red Oak			
Quercus phellos	Willow Oak			
Quercus shumardii	Shumard Oak			
Ulmus Americana	American Elm	'New Harmony'		
cvs.				
Ulmus parvifolia evs.	Lacebark Elm	Various		

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(c)	Boulevard Plants Alternative Canopy Trees.
	The following canopy trees can be used as a substitute
	to the required canopy trees if approved by the Zoning
	Administrator.

Botanical Name	Common Name	Acceptable Varieties & Cultivars	Suitability	Comments
Betula nigra	River Birch	'Heritage'	Best_adapted_to moistsoils; suitable for areas that are wet for a portionofthe year, yet_dryin summer and fall	
Carya spp.	Hickory			1" caliper allowed
<i>Gleitsia triacanthos</i>	Thornless	<u> 'Skyline'</u>		Some disease
var. inermis cvs.	Common	<u>'Moraine'</u>		and insect
	Honeylocust			problems
Quercus bicolor	Swamp White		Moist	
	Oak		bottomlands and streambanks	
Salix nigra	Black Willow		Riparian areas only	
-Taxodium	Baldcypress	Various	Both wet areas	Deciduous
distichum evs.			and upland sites	conifer

(d) Non- Boulevard Plants – Permitted Canopy Trees.

Botanical Name	Common Name	Acceptable Varieties & Cultivars	Suitability	Comments
Aesculus flava	Yellow Buckeye			
Betula lenta	Black Birch			
<i>Celtis occidentalis</i> cvs.	Hackberry	Various		
Nyssa sylvatica & evs.	Black Gum	Various		Deep tap root; large calipers not recommended
Ostrya virginiana	Eastern Hophornbeam			
Prunus serotina	Black Cherry			
<i>Quercus alba</i>	White Oak			
Quercus coccinea	Scarlet Oak			
Quercus laevis	Turkey Oak			
Quercus nuttallii	Nuttall Oak			
<i>Quercus palustris</i>	Pin Oak		Open areas	
Quercus prinus	Chestnut Oak			
Quercus rubra	Northern Red Oak			
Quercus robur	English Oak			
Quercus stellata	Post Oak			
Quercus virginiana	Live Oak			

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(e) Boulevard Plants – Permitted Evergreen Trees.

Botanical Name	Common Name	Acceptable	Suitability	Comments
		Varieties &		
		Cultivars		
Cedrus deodara &	Deodara Cedar	Various		
CVS.				
<i>Cryptomeria</i>	Lobbii Japanese	<u> 'Lobbii'</u>		
<i>japonica</i> evs.	Cryptomeria			
Ilex x attenuatta	Foster's Hybrid	'Fosteri'		
CVS.	Holly	(Foster's # 2)		
<i>Ilex x</i> 'Nellie	Nellie R. Stevens			
Stevens'	Holly			
Ilex opaca	American Holly			
Juniperus	Eastern	Various		
virginiana & cvs.	Redcedar			
<i>Magnolia</i>	Southern	'Claudia		
grandiflora evs.	Magnolia	Wannamaker'		
		<u>'Edith Bogue'</u>		
<i>Magnolia</i>	Sweetbay			
virginiana var.	Magnolia			
australis	-			
Picea abies	Norway Spruce			
Picea orientalis &	Oriental Spruce	Various		
CVS.				
Pinus taeda	Loblolly Pine			

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(f) Boulevard Plants – Permitted Understory Trees.

Botanical Name	Common Name	Acceptable Varieties	Suitability	Comments
Acer buergerianum	Trident Maple			
Aesculus sylvaticum	Painted Buckeye			
Amelanchier canadensis	Shadblow Serviceberry	<u> 'Autumn Brilliance'</u>		
CVS.				
Amalanchier laevis	Allegheny Serviceberry			
Asimina triloba	Pawpaw			
<i>Carpinus caroliniana</i>	American Hormbeam			
Castanea pumila	Allegheny Chinkapin			
Cercis canadensis cvs.	Eastern Redbud	Various		
<i>Cornus kousa</i> cvs.	Kousa Dogwood	Various		
Crataegus viridis evs.	Green Hawthorn	'Winter King'		
<i>Diospyros virginiana</i>	Persimmon			
Halesia carolinanum &	Silverbell	Various		
CVS.				
Koelreuteria paniculata &	Golden Raintree	Various		
CVS.				
Magnolia x 'Ballerina'	Ballerina Magnolia			
Oxydendron arboretum	Sourwood			
<i>Parrotia persica & cvs.</i>	Persian Perrotia	Various		
Sassafras albidum	Sassafras			
Stewartia pseudocamellia	Japenese Stewartia			
Styrax japonicus cvs.	Japenese Snowbell	Various		
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(g) Boulevard Plants – Permitted Hedgerow Shrubs

Botanical Name	Common Name	Acceptable Varieties & Cultivars	Suitability	Comments
Buxus microphylla cvs.	Littleleaf Box	Various		
Buxus sempervirens evs.	Common Box	Various		
Calycanthus floridus evs.	Sweetshrub	Various		
<i>Ilex glabra</i> cvs.	Inkberry	'Nigra' Various		
<i>Myrica cerifera</i> cvs.	Southern Waxmyrtle	Various		
Prunus laurocerasus evs.	Cherrylaurel	^{•Otto} Luyken [•] •Schipkaensis [•]		Schipkaensis ² planted 48 inches on center

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(h) Boulevard Plants – Permitted Non-Hedgerow Shrubs.

Botanical Name	Common Name	Acceptable	Suitability	Comments
		Varieties &		
		Cultivars		
Aronia arbutifolia	Red Chokeberry	'Brilliantissima'		
CVS.				
Buddleia davidii	Butterfly Bush	'Black Knight'		
CVS.		'Nanho Blue'		
<i>Callicarpa</i>	Purple	Various		
dichotoma evs.	Beautyberry			
<i>Caryopteris</i> x	Bluebeard	<u>'Heavenly Blue'</u>		
clandonensis cvs.				
<i>Chimonanthus</i>	Fragrant			
praecox	Wintersweet			
Clethra alnifolia	Summersweet	'Hummingbird'		
cvs.	Clethra			
Cornus alba evs.	Tatarian	Various		
	Dogwood			
Cornus sericea evs.	Redosier	Various		
	Dogwood			
<i>Corylopsis</i>	Buttercup			
pauciflora	Winterhazel			
Corylopsis spicata	Spike			
	Winterhazel			
Cotinus coggygria		Various		
CVS.	Smoketree			
Cotinus obovatus	American			
	Smoketree			
<i>Fothergilla</i>	Dwarf	Various		
gardenia evs.	Fothergilla	, alloub		
Fothergilla major		Various		
CVS.	Laige i othergina	v urioub		
Hydrangea	Bigleaf	<u>'All Summer</u>		
macrophylla evs.	Hydrangea	Beauty'		
Hydrangea	Oakleaf	<u>'Snow Queen'</u>		<u> </u>
quercifolia cvs.	Hydrangea			
Hex verticillata cvs.	Winterberry	<u>'Red Sprite'</u>		
110A VOLUC IIIUIU CVS.	,, intercerry	<u>'Sparkleberry'</u>		
Itea virginica cvs.	Virginia	"Little Henry'		
1100 vii gii llou ovs.	Sweetspire			
Juniperus conferta	Shore Juniper	<u>'Blue Pacific'</u>		
	Shore sumper	-Diue i ucilit		
cvs. Juniperus chinensis	Chinese Juniper	Var. sargentii		
-	Chinese Jumpel	<u>'Henry'</u>		
CVS.	<u> </u>			

Kalmia latifolia evs.	Mountain Laurel	Various		
Rosa evs.	Rose	'Elsie Mae'		
		'Knock Out'		
		'Pink Knock Out'		
Spiraea x bumalda	Bumald Spirea	<u>'Limemound'</u>		
CVS.		<u> 'Norman'</u>		
Viburnum carlesii	Koreanspice	Various		
evs.	Viburnum			
<i>Viburnum dilatatum</i>	Linden	<u>'Erie'</u>		
evs.	Viburnum	<u> 'Iroquois'</u>		
		<u> 'Catskill'</u>		
Viburnum nudum	Smooth	'Winterthur'		
evs.	Witherod			
<i>Viburnum plicatum</i>	Doublefile	<u> 'Mariesii'</u>		
var. tomentosum	Viburnum	'Shasta'		
CVS.				
Vibernum setigerum	Tea Viburnum	Various		
CVS.				
Viburnum sieboldii	Siebold	<u>'Seneca'</u>		
CVS.	Viburnum			
Viburnum x	Burkwood	<u> 'Mohawk'</u>		
burkwoodii cvs.	Viburnum			
Viburnum x	Conoy Viburnum			
'Conoy'				
Virburnum x				
<u>'Eskimo'</u>	Viburnum		-	
Viburnum x juddii	Judd Viburnum			
Viburnum x	Prague			
pragense	Viburnum			
Vitex agnus-castus	Chastetree	Various		
cvs.				

1	Section 5-1400	Landscaping, Buffer Yards, Screening, and Landscape Plans			
2 3 4 5 6 7 8 9	5-1401	Purpose. The purpose and intent of this Section is to foster attractive and harmonious development through the use of landscaping; to minimize the harmful impacts of noise, dust and other debris, motor vehicle headlight glare or other artificial light intrusion; to protect property values by reducing visual impacts and land use conflicts; provide shades enhance natural drainage systems; to contribute to ecosystem benefits; and to preserve and promote the health, safety and general welfare of the public.			
10	5-1402	Appl	Applicability.		
11 12 13		(A)	The provisions of this Section shall apply to all land development requiring a site plan, construction plans and profiles, subdivision, and/or a zoning permit application.		
14 15 16		(B)	Exceptions. The exceptions below shall not apply to the building and parking setbacks of Section 5-1403 and the Cemetery, Burial Ground, and Grave Buffer of Section 5-1405.		
17 18 19 20			(1) Road Corridor Buffers required by Section 5-1403 and Buffer Yards required by Section 5-1404 shall not apply to zoning permit applications for single family detached dwellings and residential accessory uses and structures.		
21 22 23 24 25			(2) Road Corridor Buffers required by Section 5-1403 and Buffer Yards required by Section 5-1404 shall not be required at the time of subdivision application in the AR-1, AR-2, A-10, A-3, JMLA-20, JLMA-3, TR-10, and TR-3 Zoning Districts.		
26 27 28 29 30 31			(3) Road Corridor Buffers required by Section 5-1403 shall only apply along roads adjacent to the boundary of the PD- CC, PD-TC, PD-TRC, PD-TREC, PD-RV, PD-MUB, and the Route 28 Corridor Overlay Zoning Districts. All other roads within these Zoning Districts shall be subject to the street tree requirement for such Zoning Districts.		
32 33 34 35 36			(4) Buffer Yards required by Section 5-1404 shall not apply within the PD-CC, PD-CV, PD-TREC, PD-TRC, PD-TC, and PD-MUB Zoning Districts. Buffer Yards within these Zoning Districts shall be provided in accordance with the regulations for such Zoning Districts.		
37 38 39			(5) The Road Corridor Buffers required by Section 5-1403 and Buffer Yards required by Table 5-1404 shall not apply to any use subject to Section 5-1404(A)(6).		

1 2 3 4		(6)	The Road Corridor Buffers required by Section 5-1403 shall not apply to roads that abut Agriculture, Horticulture, or Animal Husbandry uses, or to Category B and Category C roadways as provided by the Facilities Standards Manual.
5 6 7 8 9		(7)	Road Corridor Buffers required by Section 5-1403 and Buffer Yards required by Section 5-1404 shall not be required at the time of boundary line adjustment, family subdivision, single lot subdivision waiver, low density development waiver, or dedication plat application.
10 11 12 13	(C)	regu fulfi	provisions of this Section are intended to complement the lations of Section 5-1300 of this Ordinance. Trees planted to ll the canopy requirements of Section 5-1300 also may fulfill equirements of this Section.
14 15 16 17 18 19 20	(D)	the r when buffe of th Cons	ting vegetation which is suitable for use in compliance with equirements of this Section, may be used as required planting n supplemented by new vegetation, if needed, so as to provide ering and screening in accordance with the purpose and intent is Section. Such existing vegetation shall be shown on a Tree servation Plan prepared in accordance with the Facilities dards Manual.
21 22 23 24 25	(E)	stand Cour whic	ere any provision of this Section imposes restrictions or dards different from those of Section 5-1300 or any other nty ordinance or regulation or other provision of law, where provisions are more restrictive or impose higher dards shall control, unless the intent is clearly otherwise.
26	5-1403 Road	d Corr	idor Buffers and Setbacks
27	(A)	Roa	d Corridor Buffers and Setbacks, General Provisions.
28 29 30 31 32 33 34		(1)	Road Corridor Buffers and Setbacks shall be provided in accordance with Table 5-1403(B), the Road Corridor Buffer and Setbacks Matrix, except for development requiring a subdivision application but not a site plan application, which shall be subject to the requirements of Section 5- 1303(B). Road classifications shall be determined by the Countywide Transportation Plan.
35 36 37 38 39 40 41		(2)	The Road Corridor Buffers and Setbacks required by this Section shall be provided in accordance with Section 1- 205(J), and extend across the length of the proposed development site. The required width of the Road Corridor Buffer may vary by up to 50% from the minimum width required at any point along the required length, as long as the width is not reduced to less than 10 feet and the total Section 5-1

area for the length of Road Corridor Buffer with varied width is not reduced below the minimum area that would have been required. Road Corridor Buffers may be set back from the right-of-way line where easements, covenants or natural features would prevent the required Road Corridor Buffer from abutting the public street or private road, in which case the required Road Corridor Buffer shall be provided in addition to such easements, covenants, or natural features.

- (3) Certain roads within Loudoun County because of their function, location and capacity require that uses be set back a certain minimum distance from them. All other provisions of this Ordinance notwithstanding, all buildings and parking, except for agricultural structures and structures located within Village Conservation Overlay Districts (Section 4-2100) and the Joint Land Management Area Districts (2-1000 thru 2-1300), shall be subject to the setback provided in Table 5-1403(B) or the setback provided in an approved corridor study whichever setback is greater. Residences, accessory structures, and accessory uses built before June 16, 1993 are exempt from this provision pursuant to Section 1-403(D).
- (4) For subdivisions that require open space, Road Corridor Buffers shall not be located on individual residential lots of 20,000 square feet or less. When a Road Corridor Buffer is located on an individual residential lot the Road Corridor Buffer shall be located within an easement dedicated to the County of Loudoun.
- (5) For lots as they existed on June 16, 1993, the building setback from a road in Table 5-1403(B) may be reduced on shallow lots to allow a building area of up to 85 feet in depth, measured forward from any required rear Buffer Yard, yard, or setback, whichever is more restrictive. In no case shall the modified building setback from the road be less than the yard or setback required by the underlying zoning district. In these cases, parking setbacks shall be coterminous with building setbacks. No lot may be altered or reconfigured to increase the degree of its shallowness.

	Road Corridor Buffer	and Setbacks Ma		403(B)
	Route Number or Road Type	Building Setback (feet)	Parking Setback (feet)	Buffer Type
	Route 7: Fairfax County Line, West to Broad Run	50	50	3
	Route 7: Broad Run west to east corporate limit of Leesburg	200	125	Gateway
	Route 7: Bypass from the west corporate limit of Leesburg west to Clarke County	200	100	3
	Route 50 between the Fairfax County line and Lenah Farm Lane on the north side and Trailhead Drive on the south side	*	*	Gateway
	Route 267	150	100	3
	Route 50: Northstar Boulevard west to Fauquier County line	100	75	3
	Route 15	100	75	3
	Route 28	100	75	3
Route 9	Route 9	100	75	3
	Route 287	100	75	3
	Route 606	100	75	3
	Other Arterial Roads	100	75	3
	Other Major Collector Roads	75	35	2
	Minor Collector Roads	*	*	2
	All other roads in Nonresidential Districts	*	25**	1
AR AA (in	All other roads in A-3, A-10, AR, CR, TR, JLMA, PD- AAAR, PD-CV, and R (including PD-H administered as R) Districts	*	*	1
	Ramps at grade separated interchanges associated with the roads listed above	75	35	3
	W&OD Trail	25	*	2

(B) Road Corridor Buffer and Setbacks Matrix, Table 5-1403(B)

** unless otherwise specified in applicable district regulations

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1 2 3 4	E A	Road Corridor Buffer Types. The intent of the 4 Road Corridor Buffer Types that appear in Table 5-1403(B) are described below. All vegetative material within the Buffer Yard Types below shall neet the criteria of the FSM.
5 6	(1) Road Corridor Buffer Type 1. This buffer is intended to function as an intermittent visual obstruction.
7 8	(.	2) Road Corridor Buffer Type 2. This buffer is intended to function as a semi-opaque screen.
9 10 11	(.	3) Road Corridor Buffer Type 3. This buffer is intended to provide a strong impression of total separation between the road and the parcel.

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(4) Gateway Corridor Buffer. This buffer is intended to provide a boulevard environment creating a sense of enclosure and transition to mark County gateways.

(D) Road Corridor Buffer Width and Plant Requirements, Table 5-1403(D)

Table 5-1403(D) Road Corridor Buffer Width and Plant Requirements				
Road Corridor Buffer Type	Width (feet)	Number of Plant Units ² Per 100 feet of Right-of-Way or Easement ¹		
1	10	20		
2	15	60		
3	20	95		
Gateway	100	*		

¹Vehicle entrance may be excluded from length of right-of-way or easement calculation. As measured from where the buffer yard intersects the entrance travelway.

² See Table 5-1408(B)(1) for Plant Unit equivalents.

*The Gateway Corridor Buffer is subject to the requirements specified in Section 5-1403(E)

(E) Specific Requirements for Gateway Corridor Buffer

Table 5-1403(E) Gateway Corridor Buffer Plant Requirements				
Minimum Size (at time of planting)	Number of Plants per 100 feet of R/W or Easement Line			
2-inch caliper	4			
2-inch caliper	2			
8-foot height	2			
24-inch height	50			
	Minimum Size (at time of planting) 2-inch caliper 2-inch caliper 8-foot height			

Design Elements Specific to the Route 50 Corridor:

Plant Location: The plants required in Table 5-

1403(E) above shall be installed on the parcel as

The plants shall be located within the first 50 feet of the required 100 foot Buffer Yard

immediately adjacent to the right of way of

contain the plants required per 100 linear feet.

(ii) Each 100 foot segment of frontage shall

(iii) The plants shall be located in front of the linear element required in Section 5-

(iv) The plants and the linear element shall be configured to align with the plants and the

along the right-of-way, where feasible.

Linear Element: A linear element shall be provided within the Gateway Corridor Buffer for at least 40%

of a parcel's frontage adjacent to Route 50 and shall

consist of a stone-faced feature and may also include

linear element on adjacent parcels, thereby

creating a uniformly landscaped frontage

The stone-faced feature (i.e. wall, pillar, sign,

and the like) shall be faced with materials

having characteristics similar to native stone.

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follows:

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Route 50.

a fence and/or hedgerow.

1403(E)(1)(b) below.

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Notwithstanding the Section 5-200 height Section 5-1400 BOS Draft Date: November 21, 2019

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(i)

limitation for fences in front yards, the stonefaced feature shall be a minimum of 3 feet in height. If combined with a fence or hedgerow, the stone-faced feature shall have a minimum length equal to 10% of a parcel's frontage.

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- (ii) Notwithstanding the height limitation of Section 5-200 for fences in front yards, the fence shall be a maximum height of 4.5 feet, as measured from the ground to its highest point, to include posts or other supporting structures. The fence shall be constructed of wood or a wood-like polymer in a rail, paddock, or horizontal board design and shall have a minimum opacity of 50%.
- (iii) The hedgerow shall consist of a minimum of 10 shrubs planted in a continuous row, planted 36 inches on center and at a minimum height of 24 inches. The shrubs used in the hedgerow do not count towards fulfilling the required plants in Table 5-1403(E) above.
- (iv) The linear element is not required to be a continuous element. However, if any portions of the linear elements overlap, then for the length of the overlapping elements only one element can be counted towards satisfying the required length.
- (v) Areas of existing vegetation used to meet the Gateway Corridor Buffer plant requirements shall be excluded for the purposes of calculating the frontage length for determining the required minimum length of the linear element.
- (vi) The linear element does not have to be located parallel to the road.
- (vii) The linear element can be used towards fulfilling the Peripheral Parking Lot Landscaping requirements in Section 5-1407(B).
- (2) Design Elements Specific to the Route 7 Corridor:

1 Plant Location: The plants required in Table 5-(a) 2 1403(E) above shall be installed on the parcel as 3 follows: 4 The plants may be located within the full 100-(i) 5 foot width of the required Buffer Yard immediately adjacent to the right of way of 6 Route 7. 7 8 (ii) The total plants required for each 100-foot segment of frontage shall contain the plants 9 required per 100 linear feet, except that plants 10 may be relocated within the Buffer Yard 11 where existing environmental constraints or 12 public utility easements prevent planting 13 within a particular segment. 14 15 (b) Pollinator Habitat: Plants within the required Buffer Yard shall consist of plant material that supports 16 pollinator habitat, as follows: 17 A minimum of 50% of the plants required by 18 (i) Section 5-1403(E) shall consist of native 19 species as specified in the Facilities Standards 20 Manual. 21 (ii) A minimum of 75% of the small deciduous 22 trees and shrubs required by Section 5-23 1403(E) shall produce conspicuous flowers at 24 some point during their growing season. 25 Use of Gateway Corridor Buffer: In addition to the uses 26 (3)specified in Section 5-1408(C), the following uses are 27 permitted in the Gateway Corridor Buffer: 28 Storm water management and BMP facilities. Such 29 (a) facilities may not be located within the first 50 feet 30 adjacent to the right-of-way, unless the facility is 31 designed as a water feature in accordance with 32 Section 5-1403(E)(3)(b) below. 33 A water feature, defined as a permanent aqueous 34 (b)35 element to include a fountain, stream, waterfall, and/or cascade; a wet pond that includes a fountain, 36 37 waterfall and/or cascade; or a bioretention facility and/or wetland. In the case where a water feature is 38 39 incorporated in the design of the Gateway Corridor Buffer and located within the first 50 feet 40

1 2		mmediately adjacent to the right-of-way, the following variations are permitted:
3 4 5 6		 (i) The number of shrubs required by Section 5- 1403(E) above may be reduced by 50% for the total amount of linear feet of frontage that is occupied by the water feature; and
7 8 9 10 11 12 13 14 15 16 17 18	Buffer	 (ii) Notwithstanding Section 5-1403(E)(1)(a) and 5-1403(E)(2)(a) above, regarding required plant locations, for the frontage occupied by the water feature, the required large deciduous trees are to be located between the right-of-way and the water feature and the required small deciduous trees, evergreen trees and shrubs may be located around and behind the water feature. tion: The required width of the Gateway Corridor may be reduced to 50 feet subject to the Modification of the Gateway for the formation of Section 5, 1400.
18 19 20 21 22 23 24 25 26	(5) Other require and uti necess Buffer Corrid	aiver provisions of Section 5-1409. Landscaping and Screening: Where the Ordinance es the screening of parking, service and loading areas, lity equipment from roads, such screening as may be ary shall be in addition to the Gateway Corridor plantings and shall be provided within the Gateway or Buffer, but outside of the first 50 feet of the ed 100-foot-wide Buffer Yard as measured from the f-way.
27 5-1404	Buffer Yards	
28	A) Buffer Yard	ls, General Provisions.
29 30 31 32	develo Use E	and Rear Buffer Yards shall be provided on the ping parcel in accordance with Table 5-1404(B), the suffer Yard Matrix, and in accordance with the ons of this Section.
33 34 35 36	on the existin	nd Rear Buffer Yard Types shall be determined based proposed use group of the developing parcel and the g use group of the adjacent parcel, in accordance with 5-1404(B).
37 38 39 40	use on Table :	te instances where a proposed use and/or an existing a parcel is not identifiable under the use groups in 5-1404(B), the Zoning Administrator, using Table 5- 3) as a guide, shall determine the appropriate Buffer Section 5-14

1		Yard	Type for the developing parcel.
2 3 4	(group	re a structure is proposed to contain more than one use o under Table 5-1404(B) the more stringent rements of Table 5-1404(B) shall apply.
5 6 7 8 9 10 11 12	(parce requi parce adjac ways be de	re a developing parcel and/or an adjacent parcel or els contain multiple use groups, the Buffer Yard Type red by Table 5-1404(B) may vary on the developing el to correspond to the location of each use group on the ent parcel. When the adjacent parcel is used for a ide stand or temporary use, the Buffer Yard Type shall etermined as if the adjacent parcel were vacant as ded in Table 5-1404(B).
13 14 15 16 17 18	(Land provi existi adjac	ific Uses in Section 5-600 that reference this section for scaping, Buffering, and Screening requirements shall de the following between the Specific Use and any ing adjacent parcel 4 acres or less in size or any existing ent parcel that contains a dwelling unit within 300 feet e parcel containing the Specific Use:
19 20		(a)	A minimum 50-foot setback measured from the property line;
21 22 23 24 25		(b)	A 6-foot high fence, wall, or berm providing a minimum opacity of 95%, or equivalent natural topography, and/or a Buffer Yard Type B for side and rear yards, and a Road Corridor Buffer Type 2 for front yards.
26 27 28 29 30 31		(c)	The required fence, wall, or berm for side or rear yards may be configured to surround the Specific Use. The Buffer Yard Type B for side or rear yards may be configured to surround the proposed use so long as the intent of the Buffer Yard Type B is met as described in Section 5-1404(C).
32 33 34		(d)	Existing vegetation, and trees may be used to meet the requirements of this section in accordance with Section 5-1402(D).
35 36 37	I	Buffer Yar	r Yard Matrix, Table 5-1404(B). Note that required ds may require a different width than a required yard, building restriction line.
38 39 40			Section 5.1

		Adjacent Use												
		Single Family Detached	Single Family Attached	Multi-Family	Group Living	Agriculture/Horticulture/Animal Husbandrv and Passive Uses	Community and Active Recreation Uses ²	Institutional/ Civic	Office and Conference/Training Centers	Commercial/Retail	Flex-Industrial Uses and Utilities	Heavy Industrial and Aviation	Vacant Land, Located in a Residential Zoning District or Land Bay Approved for Residential Use	Vacant Land, Located in all Other Districts or Land Bays
Proposed Use	Use Group	1	2	3	4	5	6	7	8	9	10	11	12	13
Single Family Detached	1	N/A	Α	А	Α	A	А	А	Α	Α	В	В	N/A	А
Single Family Attached	2	В	N/A	А	Α	В	А	А	А	А	В	В	А	А
Multi-Family	3	В	Α	N/A	Α	В	Α	A	Α	Α	В	В	В	А
Group Living	4	В	Α	Α	N/A	В	A	A	А	А	В	В	В	А
Agriculture/Horticulture/ Animal Husbandry and Passive Uses	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community and Active Recreation Uses ²	6	В	А	А	А	N/A	N/A	A	A	А	В	В	В	А
Institutional/ Civic	7	В	В	В	Α	N/A	В	N/A	Α	Α	В	В	В	А
Office and Conference/Training Centers	8	В	В	В	В	N/A	В	В	N/A	Α	Α	В	В	А
Commercial/Retail	9	В	В	В	В	N/A	В	Α	Α	N/A	Α	В	В	А
Flex-Industrial Uses and Utilities	10	С	С	С	С	N/A	С	С	В	В	N/A	В	С	С
Heavy Industrial and Aviation	11	С	С	С	С	N/A	С	С	С	С	С	N/A	С	С
Vacant Land, Located in a Residential Zoning District or Land Bay Approved for Residential Use	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vacant Land, Located in all Other Districts or Land Bays ¹ Buffer yards A, B, and C a	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Buffer yards A, B, and C are described in greater detail in Section 5-1404(C).

²Buffer yards shall not be required between playgrounds or passive uses when located internal to a residential neighborhood.

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- (C) **Buffer Yard Types.** The intent of the 3 Buffer Yard Types that appear in Table 5-1404(B) is described below. All vegetative material within the Buffer Yard Types below shall meet the criteria of the FSM.
 - (1) Buffer Yard Type A: Aesthetic. This Buffer Yard Type is intended to function as an intermittent visual obstruction, and create the impression of spatial separation without eliminating visual contact between uses.
 - (2) Buffer Yard Type B: Semi-opaque. This Buffer Yard Type is intended to function as a semi-opaque screen between uses.
 - (3) Buffer Yard Type C: Opaque. This Buffer Yard Type is intended to provide the greatest degree of screening feasible and minimize visual contact between uses, creating a strong impression of total separation.

(D) **Buffer Yard Widths and Plant Requirements.**

Table 5-1404(D). Buffer Yard Width and Plant Requirements								
Buffer Yard Type	Width (feet)	Number of Plant Units ¹ Per 100 Linear feet of Required Buffer Yard						
A	10	30						
В	20	80						
С	25	120*						

¹See Table 5-1408(B)(1) for Plant Unit equivalents.

*A 6-foot high fence, wall, and/or berm, providing a minimum opacity of 95% is required to run the length of the required Buffer Yard between the proposed use and the required plant units. Required plant units may be planted on a berm.

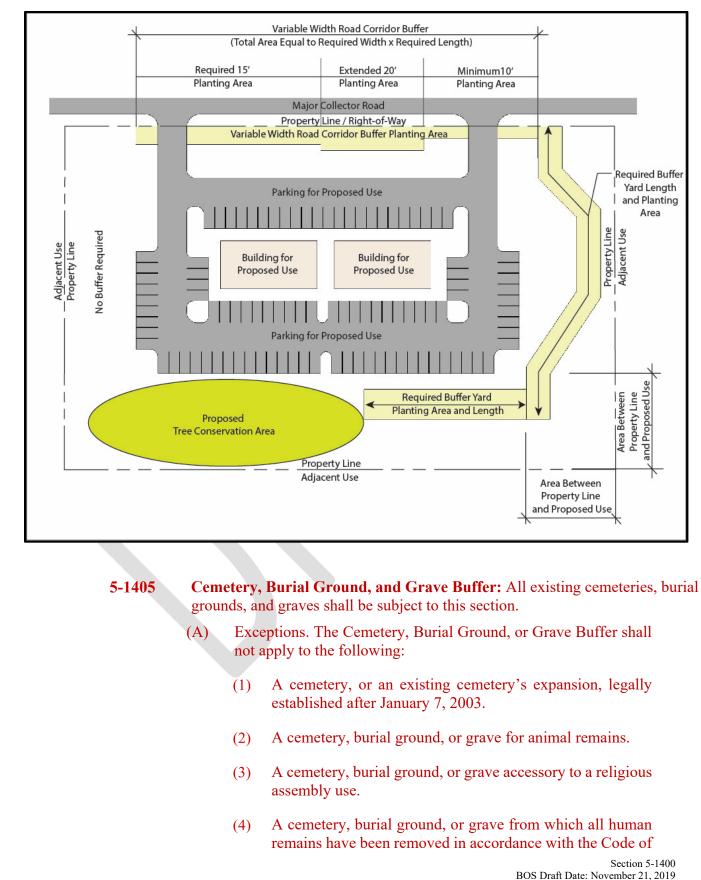
Buffer Yard Location.

(E)

- (1) Required buffer yards shall be provided between the property line and the proposed use, and may be configured to surround the proposed use so long as the intent of the required Buffer Yard Type is met as described in Section 5-1404(C).
- (2) The location of required buffer yards may vary between the property line and the proposed use so long as the required plant units are planted within the required width throughout the full length of the buffer yard.

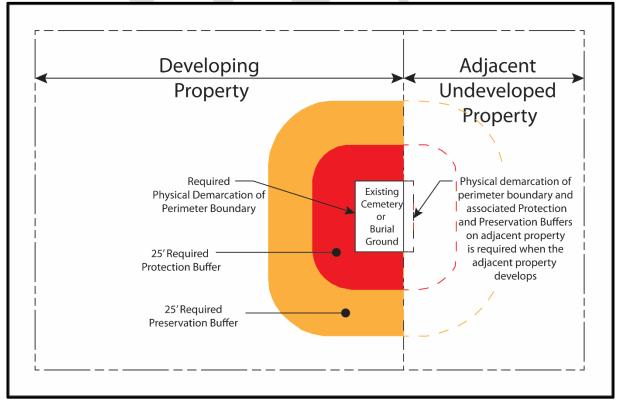


Buffer Yard Location Example



1	Virginia.
2 3 4 5 6 7 8	(B) The delineated perimeter boundary of a cemetery, burial ground, or grave shall be physically demarcated with a fence between a minimum of 3 feet and a maximum of 4 feet in height, or other perimeter demarcation as approved by the Zoning Administrator. No land disturbing activity shall be permitted within the delineated perimeter boundary of the cemetery, burial ground, or grave except for the following:
9 10	(1) Removal and reinternment of burials in accordance with the Code of Virginia;
11 12	(2) Land disturbing activity associated with the excavation and filling of grave shafts for new burials;
13 14 15	 (3) Clearing of invasive vegetation on the surface, excluding any species that were planted in association with burials; and
16	(4) Construction of the perimeter demarcation.
17 18 19 20 21 22	(C) Protection Buffer. A 25-foot protection buffer shall be established outside of and abutting the delineated perimeter boundary of the cemetery, burial ground, or grave, or property line in accordance with Section 5-1405(E), to protect the physical integrity of existing burials and to preserve the natural and cultural features associated with the cultural landscape.
23 24	(1) No land disturbing activity shall be permitted within the protection buffer except for the following:
25 26 27	 (a) Land disturbing activity associated with construction of the perimeter demarcation required by Section 5-1405(B)
28	(b) Construction associated with pedestrian access; and
29 30 31	 (c) Clearing of invasive vegetation on the surface, excluding any species that were planted in association with burials.
32 33 34	(2) The protection buffer may be modified only by Minor Special Exception in accordance with the provisions of Section 6-1300.
35 36 37	 (D) Preservation Buffer. An additional 25-foot preservation buffer shall be established outside of and abutting the protection buffer required under Section 5-1405(C) above, or property line in Section 5-1405(C) above, or property li

1 2 3 4 5 6 7	adjac ceme phys topog cultu	accordance with Section 5-1405(E), to create separation from adjacent land uses to preserve the historic context of the existing cemetery, burial ground, or grave. Historic context shall include physical characteristics such as, without limitation, vegetation, topography, water courses, monuments, enclosures, and other cultural features associated with the cemetery, burial ground, or grave.				
8 9	(1)	No land disturbing activity shall be permitted within the preservation buffer except for the following:				
10 11 12		 (a) Land disturbing activity associated with construction of the perimeter demarcation required by Section 5-1405(B); 				
13		(b) Construction associated with pedestrian access; and				
14		(c) Clearing of invasive vegetation on the surface.				
15 16 17	(2)	The Zoning Administrator may approve a waiver or modification of the preservation buffer in accordance with the requirements of Section 5-1409.				
18						
19	Cemetery,	Burial Ground, and Grave Buffer Example				



Section 5-1400 BOS Draft Date: November 21, 2019

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3	(E) Off-site Cemetery, Burial Ground, or Grave Buffer . When a
4	developing parcel is located adjacent to a parcel containing an
5	existing cemetery, burial ground, or grave for which the perimeter
6	boundary has not been delineated, the location of the protection
7	buffer and preservation buffer shall be determined as follows:
8	(1) If a known grave on the adjacent parcel is located less than
9	50 feet but no closer than 25 feet from the parcel line, and
10	no evidence of a grave is found on the developing parcel,
11	then the developing parcel shall provide a Preservation
12	Buffer measured from the parcel line that is equal in length
13	to the extent of any known graves.
14	(2) If a known grave on the adjacent parcel is located less than
15	25 feet from the parcel line, and no evidence of a grave is
16	found on the developing parcel, then the developing parcel
17	shall provide a Protection Buffer measured from the parcel
18	line that is equal in length to the extent of any known graves,
19	and a Preservation Buffer.
20	(3) If the closest known grave on the adjacent parcel is located
21	50 feet or greater from the parcel line, and no evidence of a
22	grave is found on the developing parcel, then no Cemetery,
23	Burial Ground, or Grave Buffer shall be required on the
24	developing parcel.
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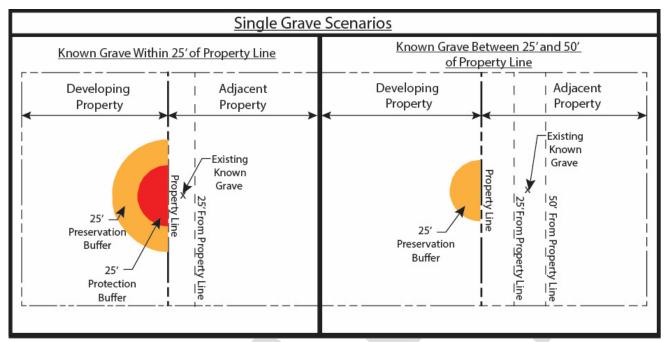
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Off-site Cemetery, Burial Ground, and Grave Buffer Example



5-1406 Screening of Certain On-site Functions

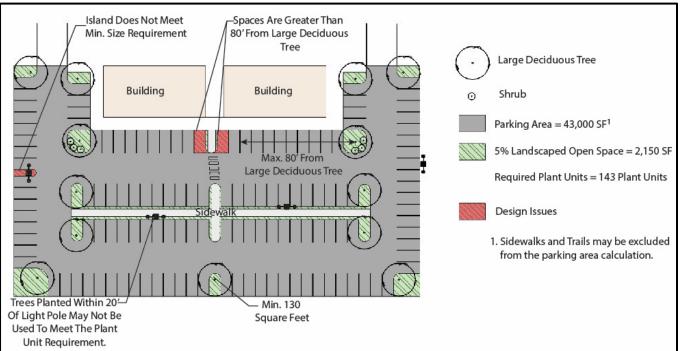
- (A) On-site functions, to include loading areas, dumpsters, outside storage areas, maintenance areas, mechanical equipment, and utility equipment, shall be screened from view from all public streets and adjoining parcels using at least one of the following screening options:
 - (1) An opaque fence or wall that is a minimum of 6 feet in height, the height of the fence or wall shall be no lower than the function/items being screened. An aesthetically compatible gate shall be provided, if applicable.
 - (2) A berm that is a minimum of 3 feet in height with evergreen plantings that are a minimum of 6 feet in height at time of planting.
 - (3) For mechanical and similar equipment, any architectural element compatible with the building that screens the view of the equipment.

5-1407 Parking Area Landscaping and Screening Requirements.

- (A) Interior Parking Area Landscaping: Any parking area that contains 20 or more parking spaces, except areas used for accessory storage of vehicles, shall include interior parking area landscaping, as follows:
 - (1) At least 5% of the gross area of the parking area shall be

1 2 3 4 5		composed of landscaped open space. The gross area of the parking area shall consist of all parking spaces, vehicular travelways, and designated crosswalks within the parking area, but shall not include other pedestrian facilities within the parking area.
6 7 8	(2)	Any individual area used as landscaped open space provided to meet the requirements of this section shall be no less than 130 square feet in size.
9 10 11 12 13	(3)	Landscaped open space shall be provided at each end of every row of parking spaces, and shall be equal in length to the adjoining parking space. Where less than 8 parking spaces are proposed in a single row, landscaped open space shall be required at only one end of the row.
14 15 16 17	(4)	Landscaped open space shall be planted with a minimum of 10 plant units per 150 square feet and shall be designed in such a way that no parking space is more than 80 feet from a large deciduous tree.
18 19 20 21 22	(5)	A minimum of 75% of the total plant units required for landscaped open space shall consist of large deciduous trees. Perennials shall be used only where taller vegetation would conflict with County and VDOT sight distance standards.
23 24	(6)	Evergreen trees shall not be used to meet the minimum interior parking area landscaping plant unit requirement.
25 26 27	(7)	No trees or shrubs shall be planted closer than 3 feet to any curb or paved area unless planted within an approved bio- retention structure.
28 29 30 31	(8)	Light poles may be placed within landscape islands. Large or small deciduous trees planted within 20 feet of a light pole shall not be used to meet the minimum interior parking area landscaping plant unit requirement.

Interior Parking Area Landscaping Example



- (B) Peripheral Parking Area Landscaping: Except where a parking area adjoins a Buffer Yard Type B or C, a Road Corridor Buffer Type 2 or 3, or a Gateway Corridor Buffer, any parking area that contains 20 or more parking spaces shall include peripheral parking area landscaping as follows:
 - (1) Parking areas and parking area travelways that are not screened by buildings or other structures shall be screened with either berms or landscaping, or a combination of both, to a minimum height of 30 inches. Berms shall not have a grade steeper than 2:1. Such berms and/or landscaping shall be located between the parking area and the parcel line or right of way. Where the boundary between abutting parcels is located within a parking area travelway, no such screening shall be required.
 - (2) Where landscaping is proposed, a minimum of 50 plant units per 100 linear feet shall be required within a continuous landscape strip 10 feet in width. A minimum of 75% of the total plant units required shall consist of evergreen shrubs.
 - (3) No trees or shrubs shall be planted closer than 3 feet to any curb or paved area unless planted within an approved bio-retention structure.

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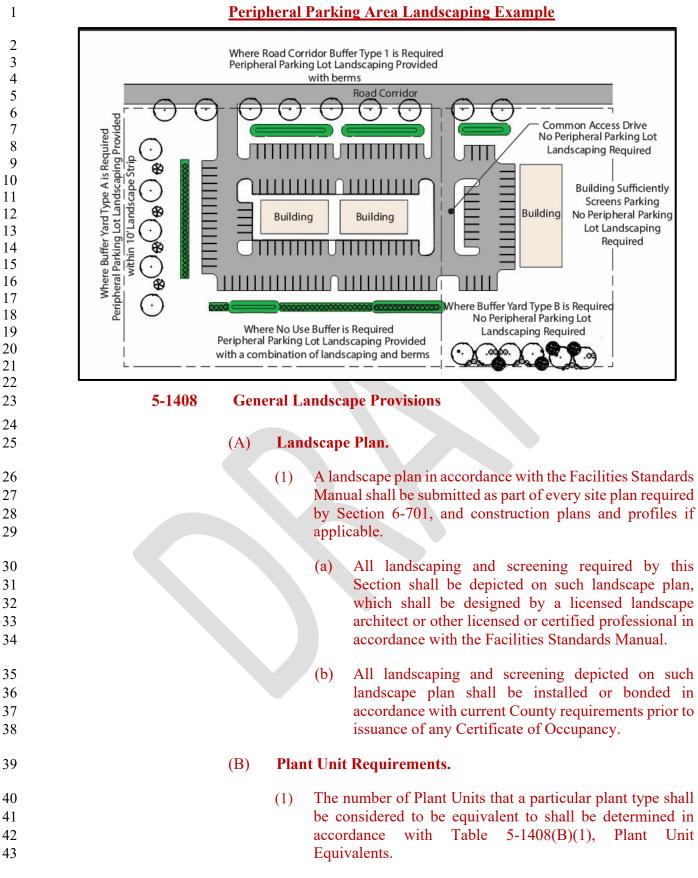


Table 5-1408(B)(1), Plant Unit Equivalents					
Plant Type	Plant Units per One (1) Plant Type				
Large Deciduous Tree	10				
Evergreen Tree	6				
Small Deciduous Tree	5				
Shrub	2				
Ornamental Grass	1				
Perennial	0.25				

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(2) The following requirements shall apply to the plant types used to meet the Plant Unit requirements for each Buffer Yard or Road Corridor Buffer provided. Maximum percentages shall apply solely in determining the quantity of a given plant type that can be counted towards meeting a Plant Unit requirement, and shall not preclude the installation of additional plant material from that plant type, if desired.

- (a) A maximum of 50% of the required plant units may be large deciduous trees.
 - (i) Exception. The Road Corridor Buffer Type 1 may be planted with 100% large deciduous trees.
- (b) A maximum of 50% of the required plant units may be evergreen trees. A minimum of 10% of the required plant units for a Type C Buffer shall be evergreen trees.
- (c) A maximum of 60% of the required plant units may be small deciduous trees.
- (d) A maximum of 30% of the required plant units may be shrubs. When shrubs are used, a minimum of onethird (1/3) shall be evergreen.
- (e) The use of ornamental grasses and perennials is encouraged. When used, a maximum of 25% of the required plant units may be ornamental grasses and/or perennials.
- (f) Walls, fences, and/or berms shall not be counted towards required plant units.

(C) Use of Buffer Yards and Road Corridor Buffers.

(1) Passive recreation and pedestrian, bicycle or equestrian

1 2		trails are permitted in Buffer Yards and Road Corridor Buffers, provided that Plant Unit requirements are met.
3 4 5 6	(2)	Utility easements may be located within Buffer Yards and Road Corridor Buffers provided that Plant Unit requirements are met with plant types that are compatible with the utility easement.
7 8 9 10 11	(3)	Driveway entrances and entrances connecting adjacent parking lots or developments may traverse a Buffer Yard or Road Corridor Buffer generally perpendicular to the direction that the length of the Buffer Yard or Road Corridor Buffer is measured.
12 13	(4)	Signs, pursuant to Section 5-1200, may be located in Buffer Yards and Road Corridor Buffers.
14 15 16 17	(5)	Storm water management features such as bioretention areas and rain gardens may be located in Buffer Yards and Road Corridor Buffers provided that Plant Unit requirements are met.
18	1 N N N N N N N N N N N N N N N N N N N	dscape Installation. The installation of all required plant
19 20		erial shall be in accordance with the Facilities Standards nual.
20 21 22 23 24	Mar	At the time of planting, all trees and shrubs shall meet the requirements of the American National Standards Institute, American Standard for Nursery Stock, ANSI Z60.1-2014. The minimum sizes required for each plant type are as
20 21 22 23 24 25 26	Mar	 At the time of planting, all trees and shrubs shall meet the requirements of the American National Standards Institute, American Standard for Nursery Stock, ANSI Z60.1-2014. The minimum sizes required for each plant type are as follows: (a) All deciduous trees shall have a minimum caliper of 1
20 21 22 23 24 25 26 27	Mar	 At the time of planting, all trees and shrubs shall meet the requirements of the American National Standards Institute, American Standard for Nursery Stock, ANSI Z60.1-2014. The minimum sizes required for each plant type are as follows: (a) All deciduous trees shall have a minimum caliper of 1 inch.
20 21 22 23 24 25 26 27 28	Mar	 At the time of planting, all trees and shrubs shall meet the requirements of the American National Standards Institute, American Standard for Nursery Stock, ANSI Z60.1-2014. The minimum sizes required for each plant type are as follows: (a) All deciduous trees shall have a minimum caliper of 1 inch. (b) Evergreen trees shall be a minimum of 6 feet in height

1 2 3	 All plant material shall be tended and maintained in a healthy growing condition, replaced when necessary and kept free of refuse and debris.
4 5 6 7	(2) Fences and walls shall be maintained in good repair. Openings within fences and walls may be required by the Zoning Administrator for accessibility to an area for necessary maintenance.
8	5-1409 Waivers and Modifications.
9 10 11 12 13 14 15	(A) Zoning Administrator Waivers and Modifications. Unless otherwise specified, the Zoning Administrator may approve waivers or modifications to the requirements of this section as part of the site plan, subdivision, and/or zoning permit process upon finding that site conditions make a specific requirement either impracticable or ineffective relative to accomplishing the impact mitigation and site design objectives of this Section.
16 17	(1) Justification. Site conditions that may justify a waiver or modification include, but are not limited to, the following:
18 19 20	(a) Topography, soil, vegetation, or other existing environmental features are such that full compliance is impossible or impracticable.
21 22	(b) Improved environmental quality would result from implementation of modified requirements.
23 24	(c) Space limitations, unusually shaped lots, and/or existing utility easements.
25 26 27	(d) Change of use on a developed site increases the required Buffer Yard to more than what is feasible to provide.
28 29	(e) Safety or security conditions make modified requirements necessary.
30 31 32 33	(f) Existing development patterns on surrounding properties would enable implementation of the applicable Place Type of the General Plan with modified requirements.
34 35 36 37	(2) Conditions. The Zoning Administrator may impose conditions upon any waiver or modification in order to ensure that the purpose and intent of this Section continue to be met.

(3) **Application.** Each request for a waiver or modification shall include the following components:

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- (a) Written Narrative. A written narrative justifying the request that identifies the specific requirement of this Section for which the modification or waiver is requested, provides a description of the site conditions that necessitate the modification and waiver request, and explains how the approval of the waiver or modification will provide equal or enhanced mitigation of impacts between uses and/or site design than what otherwise would have been required by this Section.
 - (i) **Exception Cemetery, Burial Ground, and Grave Treatment Plan.** The written narrative shall describe how the modified buffer will achieve the purpose and intent of the required preservation buffer, and address how the historic context of the cemetery, burial ground, or grave will be preserved through the proposed alternative mitigation techniques.
- (b) Design. An exhibit that clearly depicts and tabulates the quantity, type, location, and size of all proposed plant units and any other proposed design elements. Additional site elevations, plan views, perspectives, and/or pictures may be required by the Zoning Administrator.
 - (i) Exception Reduction of Gateway Corridor Buffer. When a reduction in the width of a Gateway Corridor Buffer is requested pursuant to Section 5-1403(E)(4), the design elements specified by Section 5-1403(E)(1) or Section 5-1403(E)(2), as applicable, also shall be depicted.
 - (ii) Exception Cemetery Burial Ground and Grave Treatment Plan. When a waiver or modification is requested to modify the cemetery, burial ground, and grave preservation buffer required by Section 5-1405(D), a Cemetery, Burial Ground, and Grave Treatment Plan shall be required in accordance with the Facilities Standards Manual. The Cemetery, Burial Ground, and Grave Treatment Plan shall indicate how the

modified buffer will achieve the purpose and intent of the required preservation buffer, and address how the historic context of the cemetery, burial ground, or grave is being preserved through alternative mitigation techniques. **Legislative Modifications (B)** Road Corridor Building and Parking Setbacks. The (1) Road Corridor building and parking setbacks of Table 5-1403(B) may be modified by Minor Special Exception approval in accordance with Section 6-1300 upon a finding that such modification is necessary to maintain consistency with the streetscape established by existing development on adjacent properties. The Board of Supervisors or the Board of Zoning Appeals (2)may modify the requirements of this Section as part of an

such approval shall govern.

approval action of a special exception, variance, or as part

of proffered conditions. In such event, the requirements of

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Section 5-1400 BOS Draft Date: November 21, 2019

1 2			GE	ARTICLE 1 ENERAL REGULATIONS
3 4 5 6	1-205	Term yards	s. Not are a s	and Methods for Measurements of Lots, Yards and Related withstanding this section of the Ordinance, required buffer separate regulation in the Ordinance which may require a h than a required yard, setback or building restriction line.
7 8 9 10 11 12		(A)	permit on a C specif provid	Access Requirements. No structure requiring a building t shall be erected upon any lot which does not have frontage class I, Class II, Class III road, or private access easement as ied in the individual district regulations, except as specifically led for herein and the Land Subdivision and Development ance (LSDO).
13 14 15 16			(1)	New access points (private or public) to arterial or major collector roads shall be limited to locations at existing median breaks, planned median breaks or other locations approved by Loudoun County or VDOT.
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		(B)	shall b front y they in (80%) Howe streets distan- line m measu measu lines. facing easem	ar Lots, Width Measurements. The width of a regular lot be determined by measurement across the rear of the required ward. The distance between side lot lines at the points where intersect with a street line shall not be less than eighty percent of the required width, measured along the street line. wer, in cases where lots front on curved or circular (cul-de-sac) a, the radii of which do not exceed ninety (90) feet, the ces between side lot lines where they intersect with the street ay be reduced to sixty percent (60%) of the required width, red along the street line. Yards and street lines shall be red along the arc of the curve for curvilinear yards and street Lot width shall be measured only along continuous frontage one street. The minimum width of a lot on a private access ent shall be determined by measurement along the front yard if the private access easement extended into the lot.
32		(C)	Regul	ar Lots, Determination of Front Yard.
33 34			(1)	On regular interior lots, the front shall be construed to be the portion nearest the street.
35 36 37 38 39			(2)	On regular corner lots, except as provided for in subparagraph (3) below, the front shall be construed to be the shorter boundary fronting on a street. If the lot has equal frontage on two or more streets, the front of the lot shall be determined and shown on the subdivision plat or site plan by

1 2			the prevailing building pattern, or the prevailing lot pattern if a building pattern has not been established.
3 4 5 6 7 8 9		(3)	In an agricultural zoning district (A-3, A-10, AR-1 and AR-2), the front of the lot shall be determined and shown on the subdivision plat or site plan by the prevailing building pattern, or prevailing lot pattern if a building pattern has not been established, provided that the shortest boundary fronting on a street in an agricultural zoning district is eighty percent (80%) or more of the required lot width.
10 11 12 13 14 15		(4)	On regular through corner lots, the front shall be construed to be the shorter boundary fronting the street, provided that if the shortest boundary fronting on a street is eighty percent (80%) or more of the length of the longest boundary fronting on a street, the applicant may select either frontage if lot width requirements are met.
16		(5)	On regular through lots, unless otherwise determined by the
17			Zoning Administrator due to the prevailing building pattern,
18			the front shall be construed to be the shorter boundary
19			fronting on a street. If the lot has equal frontage on two
20			streets, the front of the lot shall be determined and shown on
21			the preliminary and final subdivision plats and site plans by
22 23			the prevailing building pattern, or the prevailing lot pattern if a building pattern has not been established.
24	(D)	Regul	ar Lots, Yards Adjacent to Street.
25		(1)	Front words of at least the denth required in the district shall
25 26		(1)	Front yards of at least the depth required in the district shall be provided across the entire frontage of a regular lot.
27		(2)	Other yards adjacent to streets shall be provided across or
28		(2)	along the entire portion of the lot adjacent to the street.
29		(3)	Street line for measurement of required vards adjacent to
29 30		(3)	Street line for measurement of required yards adjacent to streets. Where the lot line adjacent to a street is straight,
30		(3)	streets. Where the lot line adjacent to a street is straight,
30 31		(3)	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in
30 31 32		(3)	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots,
30 31 32 33		(3)	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots, front, side and rear yards, as applicable, shall be parallel to
30 31 32 33 34		(3)	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots, front, side and rear yards, as applicable, shall be parallel to or concentric with, the street line. Depth of required yards
30 31 32 33		(3)	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots, front, side and rear yards, as applicable, shall be parallel to
30 31 32 33 34 35	(E)		streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots, front, side and rear yards, as applicable, shall be parallel to or concentric with, the street line. Depth of required yards adjacent to streets shall be measured perpendicular or radially to such straight street lines.
30 31 32 33 34 35 36	(E)	Rear	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots, front, side and rear yards, as applicable, shall be parallel to or concentric with, the street line. Depth of required yards adjacent to streets shall be measured perpendicular or radially to such straight street lines. Yards on Interior Regular Lots. Rear yards on interior
 30 31 32 33 34 35 36 37 	(E)	Rear regula	streets. Where the lot line adjacent to a street is straight, required yards shall be measured from such line, extended in the case of rounded corners. On convex or concave lots, front, side and rear yards, as applicable, shall be parallel to or concentric with, the street line. Depth of required yards adjacent to streets shall be measured perpendicular or radially to such straight street lines.

Depth of a required rear yard shall be measured in such a manner that the yard is a strip of land with minimum depth required by district regulations with its inner edge parallel to or concentric with its outer edge.
 (F) Yards on Corner Lots. Corner lots shall be deemed to have no rear

- (F) **Yards on Corner Lots.** Corner lots shall be deemed to have no rear yards, only two (2) front yards which are adjacent to the streets and two (2) side yards, provided that if two (2) different side yards are required in a district, the larger available yard shall be used. Notwithstanding anything to the contrary contained in this Ordinance, setbacks on corner lots shall be sufficiently large to comply with VDOT sight distance requirements or Section 5-300 whichever is greater.
- (G) Side Yards on Regular Lots. Side yards on regular lots are defined as running from the required front yard line to the required rear yard line. On regular through lots the required side yard shall run from the required front yard line to the second required front yard line. On corner lots the required side yards shall run from the point where side yard lines intersect, to the required front yard lines.
- (H) **Irregular Lots, Dimensional Requirements.** An irregular lot shall be considered to meet the dimensional requirements of the district in which located, provided:
 - (1) Lot area shall meet district requirements for the proposed use. Lot width need not meet district requirements if requirements set forth below are met.
 - (2) Open space in required yards and elsewhere on the lot shall be not less than as required for the use in the district on a regular rectangular lot of required minimum width and area.
 - (3) Building area remaining after required yards have been provided shall have dimensions and locations appropriate for all buildings proposed.
- (I) **Irregular Lots, Yard Requirements.** In general, all yards shall provide at least the same separation from all lot lines as required for minimum side yards in the district, provided, however, that where district regulations permit building to the lot line of a regular lot under specified circumstances, the same regulations shall apply on an irregular lot, except as provided with relation to accessory buildings and structures in Section 5-200. Additionally, if an irregular lot abuts a street at any point, a distance equal to the required yard on a regular lot adjacent to a street in the district shall be provided.

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Road Corridor Buffer and Setback and Other Setback Measurement From Streets. All Road Corridor Buffers and Setbacks and other setbacks from public streets shall be measured from the wider of (a) the existing dedicated right-of-way, or (b) the right-of-way proposed in the Comprehensive Plan or (c) the minimum dedicated right-of-way permitted for VDOT acceptance of the right-of-way for maintenance. For public streets, lif no dedicated right-of-way exists, or if no construction plans are approved for the road or if less than the minimum right-of-way exists, the right-of-way shall be assumed to be centered on the existing travelway. All Road Corridor Buffers and Setbacks and other setbacks from private roads shall be measured from the outer edge of the associated easement.

1-403 Nonconforming Structures.

(J**)**

- (A) Repair or Reconstruction of Nonconforming Structure. Repairs, restoration and maintenance, including structural repairs, may be made to a nonconforming structure. Except as provided for in Section 4-1500, if a nonconforming structure is damaged or destroyed by a casualty or event beyond the owner's reasonable control, the owner may repair or replace such structure provided the degree of non-conformity is not increased.
- **(B)** Alteration or Enlargement of Nonconforming Structure. A nonconforming structure shall not be enlarged, increased, nor extended to occupy a greater area of land than was occupied at the effective date of adoption or amendment of this Ordinance unless such improvements do not increase the degree of nonconformity. Notwithstanding the foregoing, a legal, non-conforming residential structure shall not be considered to have been enlarged, increased or extended within the meaning of this subsection if the addition to an existing structure is less than 50% of the existing square footage on the effective date of this Ordinance, and the yard requirements of the zoning classification which applied to the construction of such residences prior to the effective date of this Ordinance are maintained.
 - (C) Moving of Nonconforming Structure. A nonconforming structure shall not be moved in whole or in part to any other location unless every portion of such structure and the use thereof is made to conform with all requirements of this Ordinance and other applicable County Ordinances.
- (D) Pre-existing Structures in Subsequently Created Setback areas. Residences, accessory structures, and accessory uses built before June 16, 1993 may increase their footprint existing on that date up

to 50% and are exempt from the setbacks of Section 5-900-5-1403(B) but must maintain the setback created by the front of the residence even if the setback so created is less than what is required by this Ordinance.

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Article 1 Changes BOS Draft Date: November 21, 2019

1 2 3		NON	-SUBU		TICLE 2 DISTRICT REGULATIONS				
3	Section 2-100	AR-1	Agricu	ıltural I	Rural-1				
_	• • • • •		C						
5	2-101		-	-	ons. Land within the AR-1 zoning district may be e of the three development options identified below.				
6 7					on shall preclude the opportunity for a property owner				
, 8			o file for a Family Subdivision in accordance with the requirements of the						
9			ad Subdivision and Development Ordinance.						
10		(A)	Base	Density	Division Option. A Base Density Division meeting				
11				-	standards and criteria may be permitted in accordance				
12				-	ocedures outlined in the Land Subdivision and				
13			Devel	lopment	Ordinance (LSDO) for such division:				
14			(1)	Lot Y	ield. Under the Base Density Division Option, the				
15				maxin	num lot yield shall be one lot per 20 acres.				
16			(2)	Perm	itted Uses. The uses permitted on lots developed in				
17					dance with the Base Density Division Option are				
18				identi	fied in Table 2-102 and are subject to the Additional				
19				Regul	ations for Specific Uses of Section 5-600.				
20			(2)	T . 4					
20			(3)	Lot a	nd Building Requirements.				
21				(a)	Minimum Lot Size. 20 acres.				
22				(b)	Minimum Lot Width. 175 feet.				
23				(c)	Minimum Yards. Except where a greater setback is				
24					required by Section <u>5-1403(B)</u> 5-900, no structure				
25					shall be located within 25 feet of any property line or				
26					within 35 feet from any other road right-of-way,				
27					private access easement, and/or prescriptive				
28					easement.				
29				(d)	Maximum Lot Coverage. 25%, but only 10% may				
30					be used for residential or non-residential structures				
31					excluding agricultural, horticultural, and animal				
32					husbandry structures not open to the public.				
33				(e)	Maximum Building Height. 35 feet, excluding				
34					agricultural, horticultural, and animal husbandry				
35					structures not open to the public.				

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3	Section 2-200	AR-2	Agricu	ltural F	Rural-2
4 5 6 7 8	2-203	Development Options. Land within the AR-2 zoning district may be subdivided under one of the three development options identified below. Nothing in this section shall preclude the opportunity for a property owner to file for a Family Subdivision in accordance with the requirements of the Land Subdivision and Development Ordinance.			
9 10 11 12		(A)	the fol with	lowing the pro	Division Option. A Base Density Division meeting standards and criteria may be permitted in accordance ocedures outlined in the Land Subdivision and Ordinance (LSDO) for such division:
13 14			(1)		'ield. Under the Base Density Division Option, the num lot yield shall be one lot per 40 acres.
15 16 17 18			(2)	accord identif	itted Uses. The uses permitted on lots developed in lance with the Base Density Division Option are fied in Table 2-202 and are subject to the Additional ations for Specific Uses of Section 5-600.
19			(3)	Lot ar	nd Building Requirements.
20				(a)	Minimum Lot Size. 40 acres.
21				(b)	Minimum Lot Width. 175 feet.
22 23 24 25 26 27				(c)	Minimum Yards. Except where a greater setback is required by Section $5-1403(B)5-900$, no structure shall be located within 25 feet of any property line or within 35 feet from any other road right-of-way, private access easement, and/or prescriptive easement.
28 29 30 31				(d)	Maximum Lot Coverage. 25%, but only 10% may be used for residential or non-residential structures excluding agricultural, horticultural, and animal husbandry structures not open to the public.
32 33 34				(e)	Maximum Building Height. 35 feet, excluding agricultural, horticultural, and animal husbandry structures not open to the public.
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4	Section 2-300	A-10	Agriculture
5	2-304	Lot R	equirements (See Section 1-205).
6		(A)	Size. Ten (10) acres minimum.
7 8 9 10		(B)	Width. Three hundred (300) feet minimum for lots fronting on Class I Roads; two hundred (200) feet minimum for lots fronting on Class II or III Roads; and fifty (50) feet minimum for lots fronting on a private access easement.
11 12 13 14		(C)	Yards. Except where a greater setback is required by Section $5-\frac{1403(B)5-900}{1}$, no building shall be located within twenty five (25) feet of any property line or within fifty (50) feet from any other road right-of-way, private access easement, and/or prescriptive easement.
15		(D)	Length/Width Ratio. 5:1 maximum.
16			
17	Section 2-400	A-3 A	gricultural Residential.
17 18	Section 2-400 2-404		gricultural Residential. equirements (See Section 1-205).
18		Lot R	equirements (See Section 1-205).
18 19 20 21 22		Lot R (A)	 equirements (See Section 1-205). Size. Three (3) acres minimum. Width. Three hundred (300) feet minimum for lots fronting on Class I Roads; two hundred (200) feet minimum for lots fronting on Class II or III Roads; and fifty (50) feet minimum for lots fronting
18 19 20 21 22 23 24 25		Lot R (A) (B)	 equirements (See Section 1-205). Size. Three (3) acres minimum. Width. Three hundred (300) feet minimum for lots fronting on Class I Roads; two hundred (200) feet minimum for lots fronting on Class II or III Roads; and fifty (50) feet minimum for lots fronting on a private access easement. Length/Width Ratio. 5:1 maximum. Yards. Except where a greater setback is required by Section <u>5-</u>
18 19 20 21 22 23 24		Lot R (A) (B) (C)	 equirements (See Section 1-205). Size. Three (3) acres minimum. Width. Three hundred (300) feet minimum for lots fronting on Class I Roads; two hundred (200) feet minimum for lots fronting on Class II or III Roads; and fifty (50) feet minimum for lots fronting on a private access easement. Length/Width Ratio. 5:1 maximum.
 18 19 20 21 22 23 24 25 26 27 		Lot R (A) (B) (C) (D)	 equirements (See Section 1-205). Size. Three (3) acres minimum. Width. Three hundred (300) feet minimum for lots fronting on Class I Roads; two hundred (200) feet minimum for lots fronting on Class II or III Roads; and fifty (50) feet minimum for lots fronting on a private access easement. Length/Width Ratio. 5:1 maximum. Yards. Except where a greater setback is required by Section 5-1403(B)5-900, no building shall be located within twenty five (25) feet of any property line or thirty five (35) feet from any other road
 18 19 20 21 22 23 24 25 26 27 28 	2-404	Lot R (A) (B) (C) (D) Coun	 equirements (See Section 1-205). Size. Three (3) acres minimum. Width. Three hundred (300) feet minimum for lots fronting on Class I Roads; two hundred (200) feet minimum for lots fronting on Class II or III Roads; and fifty (50) feet minimum for lots fronting on a private access easement. Length/Width Ratio. 5:1 maximum. Yards. Except where a greater setback is required by Section 5-1403(B)5-900, no building shall be located within twenty five (25) feet of any property line or thirty five (35) feet from any other road right of way, private access easement, and/or prescriptive easement.

1		(B)	Width. Seventy-five (75) feet minimum.
2		(C)	Yards. Each lot shall provide the following yards:
3			(1) Front. Twenty-five (25) feet minimum.
4			(2) Side. Nine (9) feet minimum.
5			(3) Rear. Twenty-five (25) feet minimum.
6		(D)	Length/Width Ratio. 5:1 maximum.
7 8 9 10 11 12		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that gross density of one lot per forty thousand (40,000) square feet is maintained calculated based on the overall parcel. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
13 14 15 16 17 18 19		(F)	Minimum Buffer/Setback. A permanent building setback of Fifty (50) feet in depth with a Category 1 Buffer Yard (Section 5- 1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of twenty thousand (20,000) square feet or greater. Such buffer may be included in open space calculations.[RESERVED]
20 21 22		(G)	Utilities. Public sewer facilities must be provided to the site. Nothing herein shall be construed as requiring the extension of central or municipal utilities to any site or property.
23	2-507	Lot R	equirements for Compact Cluster Development Option.
24		(A)	Size. Fifteen thousand (15,000) square feet minimum.
25		(B)	Width. Sixty (60) feet minimum.
26		(C)	Yards. Each lot shall provide the following yards:
27			(1) Front. Fifteen (15) feet minimum.
28			(2) Side. Nine (9) feet minimum.
29			(3) Rear. Twenty-five (25) feet minimum.
30		(D)	Length/Width Ratio. 5:1 maximum.
31 32		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that gross density of one lot per forty Article 2 Changes

1 2 3			thousand (40,000) square feet is maintained calculated based on the overall parcel. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of			
4			Supervisors.			
5 6 7 8 9 10 11		(F)	Minimum Buffer/Setback. A permanent building setback of fifty (50) feet in depth with a Category 1 Buffer Yard (Section 5- 1414[B]) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of fifteen thousand (15,000) square feet or greater. Such buffer may be included in open space calculations.[RESERVED]			
12 13 14 15		(G)	Utilities. Both public water and public sewer facilities must be provided to serve the site. Nothing herein shall be construed as requiring the extension of central or municipal utilities to any site or property.			
16		(H)	Lot Design Requirements.			
17 18			(1) Street trees planted pursuant to Section 5-1300 shall be regularly spaced.			
19 20			(2) Garages shall be set back at least twenty (20) feet behind the front line of buildings.			
21		(I)	Other Requirements.			
22			(1) Blocks shall generally be in a grid pattern, with			
23			interconnecting streets and alleys.			
24			(2) Parallel parking may be provided on streets in front of			
25			residential lots, except for lots fronting on collector or			
26			arterial roads.			
27	2-511	Devel	opment Setback and Access from Major Roads. In designing			
28			ntial development, the lot access requirements- of Section 1-205(A)			
29			he building and parking setback requirements of Section 5-9005-			
30		<u>1403(</u>	B) shall be observed.			
31	Section 2-600	Coun	tryside Residential-2: CR-2			
32	2-607	Lot R	equirements for Compact Cluster Development Option.			
33		(A)	Size. Ten thousand (10,000) square feet minimum.			
34		(B)	Width. Fifty (50) feet minimum.			

1	(0	C) Yards	. Each lot shall provide the following yards:
2		(1)	Front. Fifteen (15) feet minimum.
3		(2)	Side. Nine (9) feet minimum.
4		(3)	Rear. Twenty five (25) feet minimum.
5	(1	D) Lengt	h/Width Ratio: 5:1 maximum.
6 7 8 9 10 11	(]	suffic thous overa perma	num Open Space Area. Open space shall be provided in a ient amount such that gross density of one lot per twenty and (20,000) square feet is maintained calculated based on the ll parcel. Open space shall be preserved by means of a anent open space easement acceptable to the Board of visors.
12 13 14 15 16 17 18	(1	(50) 1414[existi which (20,00	num Buffer/Setback. A permanent building setback of fifty feet in depth with a Category 1 Buffer Yard (Section 5- B]) shall be provided where a cluster development adjoins an ng or planned residential district, land bay, or development has a minimum allowable lot size of twenty thousand (00) square feet or greater. Such buffer area may be included on space calculations.[RESERVED]
19 20 21	(0	provie	es: Both public water and public sewer facilities must be ded to the site. Nothing herein shall be construed as requiring tension of central or municipal utilities to any site or property.
22	(1	H) Lot D	esign Requirements.
23 24		(1)	Street trees planted pursuant to Section 5-1300 shall be regularly spaced.
25 26		(2)	Garages shall be set back at least 20 feet behind the front line of buildings.
27	(1	l) Other	Requirements.
28 29		(1)	Blocks shall generally be in a grid pattern, with interconnecting streets and alleys.
30 31 32		(2)	Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
33 34		-	t Setback and Access from Major Roads. In designing evelopment, the lot access requirements of Section 1-205(A)

1 2 3	Section 2-700	<u>1403(</u>	tryside Residential-3: CR-3
4	2-707		equirements for Compact Cluster Development Option.
5 6		(A)	Size. Ten thousand (10,000) square feet minimum to fifteen thousand (15,000) square feet maximum.
7		(B)	Width. Fifty (50) feet minimum.
8		(C)	Yards. Each lot shall provide the following yards:
9			(1) Front. Fifteen (15) feet minimum.
10			(2) Side. Nine (9) feet minimum.
11			(3) Rear. Twenty five (25) feet minimum.
12		(D)	Length/Width Ratio: 5:1 maximum.
13 14 15 16 17 18		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per fifteen thousand (15,000) square feet is maintained, calculated based on the overall parcel. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
19 20 21 22 23 24 25		(F)	Minimum Buffer/Setback. A permanent building setback of fifty (50) feet in depth with a Category 1 Buffer Yard (Section 5- 1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development, which has a minimum allowable lot size of fifteen thousand (15,000) square feet or greater. Such buffer area may be included in open space calculations.[RESERVED]
26 27 28		(G)	Utilities. Both public water and public sewer shall be provided to serve the site. Nothing herein shall be construed as requiring the extension of central or municipal utilities to any site or property.
29		(H)	Lot Design Requirements.
30 31			(1) Street trees planted pursuant to Section 5-1300 shall be regularly spaced.
32 33			(2) Garages shall be set back at least twenty (20) feet behind the front line of buildings.

1		(I) Other	Requirements.
2 3		(1)	Blocks shall generally be in a grid pattern, with interconnecting streets and alleys.
4 5 6		(2)	Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
7 8 9 10	2-712	residential de and the build	t Setback and Access from Major Roads. In designing evelopment, the lot access requirements of Section $1-205(A)$ ding and parking setback requirements of Section $5-9005-1$ be observed.
11	Section 2-800	Countryside	Residential-4: CR-4
12 13 14 15	2-812	residential de and the build	t Setback and Access from Major Roads. In designing evelopment, the lot access requirements of Section 1-205(A) ding and parking setback requirements of Section 5-9005- l be observed.
16	Section 2-900	RC Rural C	ommercial District.
17 18 19	2-908	and Screeni	D]Administrative Waivers and Modifications of Buffering ing Requirements and Parking Lot Landscaping and equirements.
20 21 22 23 24 25 26 27 28 29 30 31 32 33		requir by S modif screen Admi Sectio would existin specia waive demov impac	that are subject to parking lot landscaping and screening as red by Section 5-1413, and buffering and screening as required ection 2-907, may pursue an administrative waiver and fication process, whereby the parking lot landscaping and ning may be waived, reduced or modified by the Zoning nistrator, where the strict adherence to the provisions of on 5-1413 would reduce the usable area of a lot to a point which I preclude reasonable use of the lot, or the expansion of an ng use (provided required setbacks are met) for a permitted or al exception use. Parking lot landscaping and screening may be ed reduced or modified by the Zoning Administrator, if it is instrated that the site has been designed to minimize adverse ets through a combination of architectural, landscape and/or design techniques.
34 35 36 37	2-910	nonresidentia 205(A) and t	t Setback and Access From Major Roads. In designing al development, the lot access requirements – of Section 1- the building and parking setback requirements of Section 5-) shall be observed.
38	Section 2-1000		- Management Area-1 District: JLMA-1

2-1005

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General Development Requirements. The following general development requirements shall apply to all development in the JLMA-1 district.

- (A) **Minimum Open Space.** Thirty (30) percent. Active recreational uses may be located within the open space.
- (B) **Maximum Gross Density.** The maximum gross residential density shall be one (1) unit per forty thousand (40,000) square feet, calculated based on the overall parcel, excluding roads. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
- (C) Utilities.
 - (1) Both municipal water and municipal sewer facilities must be provided to every development site, if available as determined by the Zoning Administrator, in consultation with the Town, and if the Town permits the connection. If municipal water and/or municipal sewer facilities are not available, or if the Town does not permit the connection, development may be served by an individual water supply system (private well) and/or an individual sewage disposal system.
 - (2) Notwithstanding subsection 2-1005(C)(1) above, Town owned or County owned and operated public uses shall be required to connect to municipal water and/or municipal sewer facilities only if the existing municipal water line and/or municipal sewer line is within three hundred (300) feet of the property line of the parcel being developed and if the Town permits such connection, unless the County and Town agree that the presence of other physical or geographical constraints would make the connection unreasonable. Otherwise, such Town or County public uses may use communal systems or an individual water supply system (private well) and/or individual sewage disposal system.
 - (3) Notwithstanding subsection 2-1005(C)(1) above, any development on a lot existing prior to January 7, 2003, that does not require the approval of any type of subdivision or site plan application in order to be developed may use an individual water supply system (private well) and/or individual sewage disposal system, provided, however, that if such development is required to connect to a public/municipal sewer pursuant to the Codified Ordinances of Loudoun

1 2 3 4 5 6 7 8 9		be per and no the L establi line ac the lo	y, then an individual sewage disposal system shall not mitted. For the purposes of this Section 2-1005(C)(3), otwithstanding the provisions of Section 1243.03(B) of and Subdivision and Development Ordinance, lots ished by or resulting from the recordation of a boundary djustment (BLAD) after January 7, 2003, where all of ts involved in the BLAD existed prior to January 7, shall be deemed to have existed prior to January 7,
10 11 12		Privat	ility distribution lines shall be placed underground. e wells, septic systems, and communal systems may ated within the open space.
13 14 15 16 17 18 19	(D)	development development feasible, redu for additiona employment,	d Development Standards. To ensure new in the JLMA-1 district reinforces existing patterns in the adjacent town to the maximum extent ces the need for automobile trips, minimizes the need l road improvements, and encourages walking to shopping, and public facilities, development in this meet the following requirements:
20		(1) Street	z System/Connectivity.
21 22 23 24 25 26 27		(a)	Connections to Existing Streets. Connections to the existing or planned street system shall be made to the maximum extent feasible. All development plans shall incorporate and continue all streets stubbed to or shown as stubbed to the boundary of the development by previously approved development plans/plats or existing development.
28 29 30 31 32 33 34 35 36 37		(b)	Provision for Future Connections to Adjoining Land. All developable land shall provide for future public street connections to adjacent developable parcels by providing a local street connection at least every six hundred sixty (660) feet along each subdivision plat boundary that abuts potentially developable or re-developable land, except that such street connections are not required on steep slopes, MDOD sensitivity areas, or FOD pursuant to Sections 5-1508, 4-1600, and 4-1500.
38 39 40 41		(c)	Block Form and Size. To the maximum extent feasible, blocks within developments shall maintain a rectilinear pattern except where deviation is necessitated by topographic or environmental

2 3 4 5 6 7 8 9		three hundred (300) nor more than six hundred sixty (660) feet along each side, as measured from the edge of the right-of-way, except where deviation is necessitated by topographic or environmental considerations, or where deviation is required to comply with regulations concerning steep slopes, MDOD sensitivity areas, or FOD pursuant to Sections 5-1508, 4-1600 and 4-1500.
10 11 12 13	(d)	Avoidance of Certain Street Types. Cul-de-sacs and "P-loop" streets shall be avoided except where necessitated by topographic or environmental considerations.
14 15 16 17	(e)	Provision of "T" Intersections. "T" intersections are encouraged in locations where views of important civic, public or open space areas can be highlighted.
18 (2)	Varia	ation of Lot Sizes.
19 20 21 22 23 24 25 26 27 28 29	(a)	General Rule. In all new residential subdivisions containing ten (10) or more lots, a mixture of lot sizes and dimensions shall be provided in order to allow for a variety of housing opportunities and avoid monotonous streetscapes. For example, larger and wider lots are encouraged on corners. Smaller lots are encouraged adjacent to parks and open spaces. No more than sixty percent (60%) of all lots shall be similar in total lot area. For purposes of this subsection, "similar" lot areas shall be defined as within 500 square feet of each other.
30 31 32 33 34 35 36 37	(b)	Exception. Up to seventy percent (70%) of the lots within the subject subdivision may be similar if the Zoning Administrator, pursuant to Section 6-401, makes a finding that, notwithstanding deviation from the sixty percent (60%) standard stated above, lot sizes and dimensions are sufficiently varied, for different housing types, to avoid monotonous streetscapes.
38 39 40 41	(c)	Dispersion of Lot Sizes. Similar lot sizes shall be distributed throughout a subdivision rather than consolidated in one area, unless the Zoning Administrator, pursuant to Section 6-401, makes a

considerations. Blocks shall measure not less than

of

1			
2 3			finding that the intent of this district and of the Zoning Ordinance will be better served by a design that tends to consolidate lots of similar sizes.
4	(3)	Sidew	alks.
5 6 7 8 9 10		(a)	Provision of Sidewalks and/or Trails. Sidewalks and/or trails shall be provided, at a minimum, along one side of all streets to provide pedestrian access to the town or neighborhood center, public buildings, schools, parks, and other destinations, or greater if required by the Facilities Standards Manual.
11 12 13 14 15 16 17 18 19 20 21		(b)	Sidewalk and/or Trail Connections. Connections to existing or planned sidewalks and/or trails shall be made at the property boundaries of the project by incorporating and continuing all sidewalks and/or trails stubbed to or shown as stubbed to the boundary of the development by previously approved development plans/plats or existing development. All development plans shall provide for future sidewalk and/or trail connections to adjacent developable parcels at planned or current local street connections along each subdivision plat boundary.
22	(4)	Civic	and Open Space.
23 24 25 26		(a)	Variety of Spaces to Be Provided. A variety of greens, parks or natural open spaces shall be located throughout the development, where appropriate, to provide community identity.
27		(b)	Access to Civic Spaces. Direct and convenient
28			pedestrian and bicycle access shall be provided on
			the site being developed to adjacent residential land
29			uses and to the civic and open space.
29 30			
		(c)	Configuration of Park Access. Land dedicated for
30		(c)	Configuration of Park Access. Land dedicated for parks shall be bordered on at least one side by public
30 31		(c)	-
30 31 32	(5)		parks shall be bordered on at least one side by public
30 31 32 33 34	(5)	Other	parks shall be bordered on at least one side by public streets, preferably local or collector streets. Design Requirements.
 30 31 32 33 34 35 	(5)		parks shall be bordered on at least one side by public streets, preferably local or collector streets.Design Requirements.Street Trees. Street trees planted pursuant to
 30 31 32 33 34 35 36 	(5)	Other	 parks shall be bordered on at least one side by public streets, preferably local or collector streets. Design Requirements. Street Trees. Street trees planted pursuant to Section 5-1300 shall be planted at a density of no less
 30 31 32 33 34 35 36 37 	(5)	Other	 parks shall be bordered on at least one side by public streets, preferably local or collector streets. Design Requirements. Street Trees. Street trees planted pursuant to Section 5-1300 shall be planted at a density of no less than one (1) canopy shade tree per twenty-five (25)
 30 31 32 33 34 35 36 	(5)	Other	 parks shall be bordered on at least one side by public streets, preferably local or collector streets. Design Requirements. Street Trees. Street trees planted pursuant to Section 5-1300 shall be planted at a density of no less

1 2 3 4				(b)	Garages. Garages shall be set back at least four (4) feet behind the plane of the front door of the principal building. Garages shall have vehicular access only from the side or rear of the lot.
5 6 7				(c)	On-Street Parking. Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
8		(E)	Comp	atibilit	y Standards.
9 10 11			(1)	Buffer	nimum buffer width of twenty-five (25) feet with a <u>Yard</u> Type <u>2-A buffer yard</u> shall be provided between ag agricultural uses and residential development sites.
12			(2)	On no	n-residential development sites:
13 14 15 16 17				(a)	Areas for loading, delivery, and waste collection receptacles shall be sited so as to reduce the impact on surrounding properties to the maximum extent feasible, with highest priority given to reducing the impact on residential properties.
18 19 20				(b)	Outdoor lighting shall be directed towards the interior of the development site and shall be shielded to prevent all direct illumination of other properties.
21	Section 2-1100	Joint l	Land M	lanage	ment Area-2 District: JLMA-2
22 23 24	2-1105		pment	-	nent Requirements. The following general ments shall apply to all development in the JLMA-2
25 26		(A)		-	pen Space. Thirty (30) percent. Active recreational ocated within the open space.
27 28 29 30 31		(B)	shall b calcula shall b	be one ated bas be prese	ross Density. The maximum gross residential density (1) unit per twenty thousand (20,000) square feet, sed on the overall parcel, excluding roads. Open space erved by means of a permanent open space easement the Board of Supervisors.
32		(C)	Utiliti	es.	
33 34 35 36			(1)	provid determ	nunicipal water and municipal sewer facilities must be led to every development site, if available as nined by the Zoning Administrator, in consultation he Town, and if the Town permits the connection. If

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municipal water and/or municipal sewer facilities are not 1 2 available, or if the Town does not permit the connection, development may be served by an individual water supply 3 system (private well) and/or an individual sewage disposal 4 5 system. (2)Notwithstanding subsection 2-1105(C)(1) above, Town owned 6 or County owned and operated public uses shall be required to 7 connect to municipal water and/or municipal sewer facilities 8 only if the existing municipal water line and/or municipal 9 sewer line is within three hundred (300) feet of the property line 10 of the parcel being developed and if the Town permits such 11 connection, unless the County and Town agree that the 12 presence of other physical or geographical constraints would 13 make the connection unreasonable. Otherwise, such Town or 14 County public uses may use communal systems or an 15 individual water supply system (private well) and/or individual 16 sewage disposal system. 17 (3) Notwithstanding subsection 2-1105(C)(1) above, 18 any development on a lot existing prior to January 7, 2003, that 19 does not require the approval of any type of subdivision or site 20 21 plan application in order to be developed may use an individual water supply system (private well) and/or 22 individual sewage disposal system, provided, however, that if 23 such development is required to connect to a public/municipal 24 25 sewer pursuant to the Codified Ordinances of Loudoun County, then an individual sewage disposal system shall not 26 be permitted. For the purposes of this Section 2-1105(C)(3), 27 and notwithstanding the provisions of Section 1243.03(B) of 28 the Land Subdivision and Development Ordinance, lots 29 established by or resulting from the recordation of a boundary 30 line adjustment (BLAD) after January 7, 2003, where all of 31 the lots involved in the BLAD existed prior to January 7, 32 2003, shall be deemed to have existed prior to January 7, 33 2003. 34 (4)All utility distribution lines shall be placed underground. 35 Private wells, septic systems, and communal systems may 36 be located within the open space. 37 38 (D) Neighborhood Development Standards. To ensure new development in the JLMA-2 district reinforces existing 39 development patterns in the adjacent towns to the maximum extent 40 feasible, reduces the need for automobile trips, minimizes the need 41 for additional road improvements, and encourages walking to 42

1 2			shopping, and public facilities, development in this meet the following requirements:
3	(1)	Stree	t System/Connectivity.
4 5 6		(a)	Connections to Existing Streets. Connections to the existing or planned street system shall be made to the maximum extent feasible. All development plans
7 8 9 10			shall incorporate and continue all streets stubbed to or shown as stubbed to the boundary of the development by previously approved development plans/plats or existing development.
11 12 13 14 15 16 17 18 19 20		(b)	Provision for Future Connections to Adjoining Land. All developable land shall provide for future public street connections to adjacent developable parcels by providing a local street connection at least every six hundred sixty (660) feet along each subdivision plat boundary that abuts potentially developable or re-developable land, except that such street connections are not required on steep slopes, MDOD sensitivity areas, or FOD pursuant to Sections 5-1508, 4-1600, and 4-1500.
21 22 23 24 25 26 27 28 29 30 31 32 33		(c)	Block Form and Size. To the maximum extent feasible, blocks within developments shall maintain a rectilinear pattern except where deviation is necessitated by topographic or environmental considerations. Blocks shall measure not less than three hundred (300) nor more than six hundred sixty (660) feet along each side, as measured from the edge of the right-of-way, except where deviation is necessitated by topographic or environmental considerations, or where deviation is required to comply with regulations concerning steep slopes, MDOD sensitivity areas, or FOD pursuant to Sections 5-1508, 4-1600 and 4-1500.
34 35 36 37		(d)	Avoidance of Certain Street Types. Cul-de-sacs and "P-loop" streets shall be avoided except where necessitated by topographic or environmental considerations.
38 39 40 41		(e)	Provision of "T" Intersections. "T" intersections are encouraged in locations where views of important civic, public or open space areas can be highlighted.

1	(2)	Variat	tion of Lot Sizes.
2 3 4 5 6 7 8 9 10 11 12		(a)	General Rule. In all new residential subdivisions containing ten (10) or more lots, a mixture of lot sizes and dimensions shall be provided in order to allow for a variety of housing opportunities and avoid monotonous streetscapes. For example, larger and wider lots are encouraged on corners. Smaller lots are encouraged adjacent to parks and open spaces. No more than sixty percent (60%) of all lots shall be similar in total lot area. For purposes of this subsection, "similar" lot areas shall be defined as within 500 square feet of each other.
13 14 15 16 17 18 19 20		(b)	Exception. Up to seventy percent (70%) of the lots within the subject subdivision may be similar if the Zoning Administrator, pursuant to Section 6-401, makes a finding that, notwithstanding deviation from the sixty percent (60%) standard stated above, lot sizes and dimensions are sufficiently varied, for different housing types, to avoid monotonous streetscapes.
21 22 23 24 25 26 27		(c)	Dispersion of Lot Sizes. Similar lot sizes shall be distributed throughout a subdivision rather than consolidated in one area, unless the Zoning Administrator, pursuant to Section 6-401, makes a finding that the intent of this district and of the Zoning Ordinance will be better served by a design that tends to consolidate lots of similar sizes.
28	(3)	Sidewa	alks.
29 30 31 32 33 34		(a)	Provision of Sidewalks and/or Trails. Sidewalks and/or trails shall be provided, at a minimum, along one side of all streets to provide pedestrian access to the town or neighborhood center, public buildings, schools, parks, and other destinations, or greater if required by the Facilities Standards Manual.
35 36 37 38 39 40 41		(b)	Sidewalk and/or trail Connections. Connections to existing or planned sidewalks and/or trails shall be made at the property boundaries of the project by incorporating and continuing all sidewalks and/or trails stubbed to or shown as stubbed to the boundary of the development by previously approved development plans/plats or existing development.

1 2 3 4			All development plans shall provide for future sidewalk and/or trails connections to adjacent developable parcels at planned or current local street connections along each subdivision plat boundary.
5	((4) Ci	vic and Open Space.
6 7 8 9		(a)	Variety of Spaces to Be Provided. A variety of greens, parks or natural open spaces shall be located throughout the development, where appropriate, to provide community identity.
10 11 12 13		(b)	Access to Civic Spaces. Direct and convenient pedestrian and bicycle access shall be provided adjacent residential land uses and to the civic and open space.
14 15 16		(c)	Configuration of Park Access. Land dedicated for parks shall be bordered on at least one side by public streets, preferably local or collector streets.
17	((5) O 1	ther Design Requirements.
18 19 20 21 22		(a)	Street Trees. Street trees planted pursuant to Section 5-1300 shall be planted at a density of no less than one canopy shade tree per twenty-five (25) feet on average, and shall be placed in arrangements consistent with the existing landscape of the vicinity.
23 24 25 26		(b)	Garages. Garages shall be set back at least four (4) feet behind the plane of the front door of the principal building. Garages shall have vehicular access only from the side or rear of the lot.
27 28 29		(c)	On-Street Parking. Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
30	(E) (Compatil	pility Standards.
31 32 33	(<u>Βι</u>	minimum buffer width of twenty-five (25) feet with a <u>iffer Yard</u> Type <u>2-B buffer yard</u> shall be provided between isting agricultural uses and residential development sites.
34	((2) Or	n non-residential development sites:
35 36		(a)	Areas for loading, delivery, and waste collection receptacles shall be sited so as to reduce the impact

1 2 3			on surrounding properties to the maximum extent feasible, with highest priority given to reducing the impact on residential properties.
4		(b)	Outdoor lighting shall be directed towards the
5 6			interior of the development site and shall be shielded to prevent all direct illumination of other properties.
7	Section 2-1300	JLMA-20 (Joint La	nd Management Area – 20)
8	2-1304	e	equirements. Table 2-1304 identifies the lot and
9		building requirement	s that apply to all development in the JLMA-20
10		district.	

TABLE 2-1304

JLMA-20 LOT AND BUILDING REQUIREMENTS

Minimum Lot Size	20 acres
Minimum Lot Size	
Minimum Lot Width	200 feet on paved roads; 50 feet on unpaved roads
Section 1.01 Minimum Yards	Except where a greater setback is required by Section- <u>5-9005-</u>
	1403(B), no building shall be located within 25 feet of any
	property line or 35 feet from any other road right-of-way,
	private access easement, and/or prescriptive easement.
Maximum Lot Coverage	25%, but only 10% may be used for residential structures
	excluding agricultural, horticultural, and animal husbandry
	structures not open to the public.
Maximum Building Height	40 feet. No restriction for buildings used exclusively for
	agriculture, horticulture and animal husbandry, or for General
	Government Use.
Lot Access	Access to individual lot provided by privately owned and
	maintained travelway which shall either be:
	• A private access easement that complies with the
	requirements of Chapter 4:Transportation of the
	1 1 1
	Facilities Standards Manual; or
	• A private lane that:
	■ Is within a 24' private easement;
	 Is within a 24 private casement, Is at least 12' in width;
	·
	■ If paved, is 2" over a 4" base;
	■ If gravel is 6"; and
	■ Has a minimum grade of 10% with a
	Minimum 30' centerline curve radius.

			 Private access easement or private lane may serve as frontage in-lieu of public road frontage up to 25 lots. Plat of division shall contain note and provide for maintenance of private access easement or private lane.
1			
2	Section 2-1400	TR-10	(Transitional Residential - 10)
3	2-1403	Develo	pment Standards.
4		· · ·	General. All development in the TR-10 district, unless exempted
5 6			pursuant to Section 2-1403(B) shall be developed consistent with Section 5-701 (TR Districts Lot Standards) and Section 5-9005-
7			$\frac{1403(B)}{1}$
8		· · ·	Exemptions. The development of a lot existing on January 7, 2003,
9			is exempted from the standards and requirements of Section 5-701
10 11			(TR Districts Lot Standards). The development of such lot shall be subject to the development standards of Table 2-1403(B).

TABLE 2-1403(B):TR-10 BUILDING REQUIREMENTS FOR EXISTING LOTS(Lots Existing Prior to January 7, 2003)

Minimum Required Yards	Except where a greater setback is required by Section 5-
	9005-1403(B), no building shall be located within 25 feet
	of any property line or 35 feet from any other road right-
	of-way, private access easement, and any prescriptive
	easement.
Maximum Floor Area Ratio	0.05
Maximum Building Height	40 feet. No restriction for buildings used exclusively for
	agriculture, horticulture and animal husbandry.

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13	Section 2-1500	TR-3 (Transitional Residential-3)
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2-1503

Development Standards.

- (A) General. All development in the TR-3 districts, unless exempted pursuant to Section 2-1503(B), shall be developed consistent with Section 5-701 (TR Districts Lot Standards) and Section <u>5-9005-1403(B)</u>.
- (B) **Exemptions.** The development of a lot existing on January 7, 2003, is exempted from the standards and requirements of Section 5-701

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(TR Districts Lot Standards). The development of such lot shall be subject to the development standards of Table 2-1503(B).

TABLE 2-1503(B):			
TR-3 BUILDING RE	TR-3 BUILDING REQUIREMENTS FOR EXISTING LOTS		
(Lots Exist	ing Prior to January 7, 2003)		
Minimum Required Yards	Except where a greater setback is required by Section 5-		
	900 <u>5-1403(B)</u> , no building shall be located within 25		
	feet of any property line or 35 feet from any other road		
	right-of-way, private access easement, and any		
	prescriptive easement.		
Maximum Floor Area Ratio	0.05		
Maximum Building Height	40 feet. No restriction for buildings used exclusively for		
	agriculture, horticulture and animal husbandry.		

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-		
5	Section 2-1600	TR-2 (Transitional Residential - 2)
6	2-1603	Development Standards.
7 8 9 10		 (A) General. All development in the TR-2 district, unless exempted pursuant to Section 2-1603(B) shall be developed consistent with Section 5-701 (TR Districts Lot Standards) and Section 5-9005-1403(B).
11 12 13 14 15		(B) Exemptions. The development of a lot existing on the date of adoption is exempted from the standards and requirements of Section 5-701 (TR Districts Lot Standards. The development of such lot shall be subject to the development standards of Table 2- 1603(B).

TABLE 2-1603(B): TR-2 BUILDING REQUIREMENTS FOR EXISTING LOTS (Lots Existing Prior to January 7, 2003)

($\mathbf{S} = \cdots = \mathbf{S}$
Minimum Required Yards	Except where a greater setback is required by
	Section <u>5-9005-1403(B)</u> , no building shall be
	located within 25 feet of any property line or 35
	feet from any other road right-of-way, private
	access easement, and any prescriptive easement.
Maximum Floor Area Ratio	0.05
Maximum Building Height	40 feet. No restriction for buildings used
	exclusively for agriculture, horticulture and
	animal husbandry.

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TR-1 (Transitional Residential - 1)

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2-1703 **Development Standards.**

- (A) General. All development in the TR-1 districts, unless exempted pursuant to Section 2-1703(B) shall be developed consistent with Section 5-701 (TR Districts Lot Standards) and Section 5-9005-1403(B).
- **(B)** Exemptions. The development of a lot existing on January 7, 2003 is exempted from the standards and requirements of Section 5-701 (TR Districts Lot Standards). The development of such lot shall be subject to the development standards of Table 2-1703(B).

TABLE 2-1703(B): **TR-1 BUILDING REQUIREMENTS FOR EXISTING LOTS** (Lots Existing Prior to January 7, 2003)

(2000 2000 00 00 00 00 00 00 00 00 00 00		
Minimum Required Yards	Except where a greater setback is required by	
	Section <u>5-9005-1403(B)</u> , no building shall be	
	located within 25 feet of any property line or 35 feet	
	from any other road right-of-way, private access	
	easement, and any prescriptive easement.	
Maximum Floor Area Ratio	0.05	
Maximum Building Height	40 feet. No restriction for buildings used exclusively	
	for agriculture, horticulture and animal husbandry.	

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1 2		SU	ARTICLE 3 JBURBAN DISTRICT REGULATIONS
3			
4	Section 3-100	R-1 S	ingle Family Residential.
5 6	3-101	Lot F 20%.	Requirements for Cluster Developments reducing lot size up to
7		(A)	Size. 32,000 square feet minimum.
8		(B)	Width. 140 feet minimum.
9		(C)	Yards. Each lot shall provide the following yards:
10			(1) Front. 30 feet minimum.
11 12			(2) Side. Minimum of twelve (12) feet on one side and nine (9) feet on the other side.
13			(3) Rear. 30 feet minimum.
14		(D)	Length/Width Ratio: 5:1 maximum.
15 16 17 18 19		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 40,000 square feet is maintained, calculated based on the overall parcel. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
20 21 22 23 24 25 26		(F)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 40,000 square feet or greater. Such buffer area may be included in open space calculations.
27 28	3-102		Requirements for Cluster Development Reducing Lot Sizes 20% to Pursuant to Section 6-1400.
29		(A)	Size. 20,000 square feet minimum.
30		(B)	Width. 100 feet minimum.
31		(C)	Yards. Each lot shall provide the following yards:
32			(1) Front. 25 feet minimum.

1 2			(2) Side. Minimum of twelve (12) feet on one side and nine (9) feet on other side.
3			(3) Rear. 25 feet minimum.
4		(D)	Length/Width Ratio. 5:1 maximum.
5 6 7 8 9		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 40,000 square feet is maintained, calculated based on the overall. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
10 11 12 13 14 15 16		(F)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 40,000 square feet or greater. Such buffer area may be included in open space calculations.
17 18 19 20 21	3-107	reside and th	opment Setback and Access From Major Roads. In designing ntial development, the <u>lot access requirements of Section 1-205(A)</u> <u>ne building and parking setback</u> requirements of Section <u>5-9005-</u> <u>B)</u> shall be observed.
22	Section 3-200	R-2 Si	ingle Family Residential.
23	3-205	Lot R	equirements for Traditional Design Option.
24		(A)	Size. 10,000 square feet minimum.
25		(B)	Width. 75 feet minimum.
26		(C)	Yards. Each lot shall provide the following yards:
27			(1) Front. 15 feet minimum.
28			(2) Side. 9 feet minimum.
29			(3) Rear. 25 feet minimum.
30		(D)	Length/Width Ratio. 5:1 maximum.
31		(E)	Lot Design Requirements.

1 2				Street trees planted pursuant to Section 5-1300 shall be regularly spaced.
3 4				Garages shall be set back at least 20 feet behind the front line of buildings.
5 6 7 8 9		(F)	sufficient square f space s	Im Open Space Area. Open space shall be provided in a nt amount such that a gross density of one lot per 20,000 feet is maintained, calculated based on the overall. Open hall be preserved by means of a permanent open space nt acceptable to the Board of Supervisors.
10 11 12 13 14 15 16		(G)	(50) fee 1414(B) an exist which h greater.	Im Buffer. A permanent common open space buffer of fifty et in depth with a Category 2 Buffer Yard (Section 5-)) shall be provided where a traditional development adjoins ing or planned residential district, land bay, or development has a minimum allowable lot size of 20,000 square feet or Such buffer area may be included in open space ions.[RESERVED]
17		(H)	Other F	Requirements.
18 19				Blocks shall generally be in a grid pattern with interconnecting streets and alleys.
20 21 22			1	Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
23 24	3-206	Lot R 20%.	equirem	ents for Cluster Development reducing lot sizes up to
25		(A)	Size. 10	5,000 square feet minimum.
26		(B)	Width.	80 feet minimum.
27		(C)	Yards.	Each lot shall provide the following yards:
28			(1)	Front. 25 feet minimum.
29			(2)	Side. 9 feet minimum.
30			(3) l	Rear. 25 feet minimum.
31		(D)	Length	Width Ratio: 5:1 maximum.
32 33		(E)		Im Open Space Area. Open space shall be provided in a nt amount such that a gross density of one lot per 20,000

1 2 3			square feet is maintained, calculated based on the overall parcel. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
4 5 6 7 8 9 10		(F)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 20,000 square feet or greater. Such buffer area may be included in open space calculations.
11 12	3-207		equirements for Cluster Development Reducing Lot Sizes From o 50% Pursuant to Section 6-1400.
13		(A)	Size. 10,000 square feet minimum.
14		(B)	Width. 80 feet minimum.
15		(C)	Yards. Each lot shall provide the following yards:
16			(1) Front. 25 feet minimum.
17			(2) Side. 9 feet minimum.
18			(3) Rear. 25 feet minimum.
19		(D)	Length/Width Ratio: 5:1 maximum.
20 21 22 23 24		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 20,000 square feet is maintained, calculated based on the overall. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
25 26 27 28 29 30 31		(F)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 20,000 square feet or greater. Such buffer area may be included in open space calculations.
32 33 34 35	3-212	resider and th	opment Setback and Access From Major Roads. In designing initial development, the <u>lot access requirements of Section 1-205(A)</u> is building and parking setback requirements of Section <u>5-9005-</u> 3) shall be observed.

1	Section 3-300	R-3 Si	ngle Family Residential.
2	3-305	Lot R	equirements for Traditional Design Option.
3		(A)	Size. 8,000 square feet minimum.
4		(B)	Width. 50 feet minimum.
5		(C)	Yards. Each lot shall provide the following yards:
6			(1) Front. 15 feet minimum.
7			(2) Side. 9 feet minimum.
8			(3) Rear. 25 feet minimum.
9		(D)	Length/Width Ratio: 5:1 maximum.
10		(E)	Lot Design Requirements.
11 12			(1) Street trees planted pursuant to Section 5-1300 shall be regularly spaced.
13 14			(2) Garages shall be set back at least twenty (20) feet behind the front line of buildings.
15 16 17 18 19		(F)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 15,000 square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
20 21 22 23 24 25 26		(G)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5- 1414(B)) shall be provided where a traditional development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 15,000 square feet or greater. Such buffer area may be included in open space calculations.[RESERVED]
27		(H)	Other Requirements.
28 29			(1) Blocks shall generally be in a grid pattern, with interconnecting streets and alleys.
30 31 32			(2) Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.

1 2	3-306	Lot R 20%.	equirements for Cluster Development Reducing Lot Sizes Up to
3		(A)	Size. 12,000 square feet minimum.
4		(B)	Width. 75 feet minimum.
5		(C)	Yards. Each lot shall provide the following yards:
6			(1) Front. 25 feet minimum.
7			(2) Side. 9 feet minimum.
8			(3) Rear. 25 feet minimum.
9		(D)	Length/Width Ratio: 5:1 maximum.
10 11 12 13 14		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 15,000 square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
15 16 17 18 19 20 21		(F)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 15,000 square feet or greater. Such buffer area may be included in open space calculations.
22 23	3-307		Requirements for Cluster Development Reducing Lot Sizes From To 50% Pursuant to Section 6-1400.
24		(A)	Size. 8,000 square feet minimum.
25		(B)	Width. 60 feet minimum.
26		(C)	Yards. Each lot shall provide the following yards:
27			(1) Front. 25 feet minimum.
28			(2) Side. 9 feet minimum.
29			(3) Rear. 25 feet minimum.
30		(D)	Length/Width Ratio. 5:1 maximum.

1 2 3 4 5		(E)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 15,000 square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
6 7 8 9 10 11 12		(F) —	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 15,000 square feet or greater. Such buffer area may be included in open space calculations.
13 14 15 16	3-313	reside <u>and t</u>	opment Setback And Access From Major Roads. In designing ntial development, the lot access requirements of Section $1-205(A)$ <u>he building and parking setback</u> requirements of Section $5-9005-B$ shall be observed.
17	Section 3-400	DAS	ingle Family Decidential
18			ingle Family Residential.
19	3-405		equirements for Traditional Design Option.
20		(A)	Size. 6,000 square feet minimum.
21		(B)	Width. 50 feet minimum.
22		(C)	Yards. Each lot shall provide the following yards:
23			(1) Front. 15 feet minimum.
24			(2) Side. 9 feet minimum.
25			(3) Rear. 25 feet minimum.
26		(D)	Length/Width Ratio: 5:1 maximum.
27		(E)	Lot Design Requirements.
28 29			(1) Street trees planted pursuant to Section 5-1300 shall be regularly spaced.
30 31			(2) Garages shall be setback at least 20 feet behind the front line of buildings.
32 33		(F)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 10,000
			Article 3 Changes BOS Draft Date: November 21, 2019

1 2 3			square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
4 5 7 8 9 10	(- - - - - - - - - - 	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5- 1414(B)) shall be provided where a traditional development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 10,000 square feet or greater. Such buffer area may be included in open space calculations.[RESERVED]
11	(H)	Other Requirements.
12 13			(1) Blocks shall generally be in a grid pattern, with interconnecting streets and alleys.
14 15 16			(2) Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
17			
18 19		Lot Re 20%.	quirements for Cluster Development Reducing Lot Sizes Up to
20	(A)	Size. 8,000 square feet minimum.
21	(B)	Width. 75 feet minimum.
22		C) .	Yards. Each lot shall provide the following yards.
23			(1) Front. 25 feet minimum.
24			(2) Side. 9 feet minimum.
25			(3) Rear. 25 feet minimum.
26	(D) 1	Length/Width Ratio: 5:1 maximum.
27 28 29 30 31	(Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 10,000 square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
32 33	(Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-

1 2 3 4 5		1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 10,000 square feet or greater. Such buffer area may be included in open space calculations.
6 7	3-407	Lot Requirements For Cluster Development Reducing Lot Sizes From 20% to 50% Pursuant to Section 6-1400.
8		(A) Size. 6,000 square feet minimum.
9		(B) Width. 50 feet minimum.
10		(C) Yards. Each lot shall provide the following yards.
11		(1) Front. 25 feet minimum.
12		(2) Side. 9 feet minimum.
13		(3) Rear. 25 feet minimum.
14		(D) Length/Width Ratio: 5:1 maximum.
15 16 17 18 19		(E) Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 10,000 square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
20 21 22 23 24 25 26		(F) Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5- 1414(B)) shall be provided where a cluster development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 10,000 square feet or greater. Such buffer area may be included in open space calculations.
27 28 29 30 31	3-412	Development Setback and Access from Major Roads. In designing residential development, the <u>lot access requirements of Section 1-205(A)</u> and the building and parking setback requirements of Section <u>5-9005-1403(B)</u> shall be observed.
32	Section 3-500	R-8 Single Family Residential.
33 34	3-507	Lot Requirements for Traditional Design Option for Single Family Detached.

1	(A)	Size. 5,000 sq. ft. minimum, exclusive of major floodplain.
2	(B)	Width. 50 feet minimum.
3	(C)	Yards. Each lot shall provide the following yards.
4		(1) Front. 15 feet minimum.
5		(2) Side. 9 feet minimum.
6		(3) Rear. 25 feet minimum.
7	(D)	Length/Width Ratio: 5:1 maximum.
8	(E)	Lot Design Requirements.
9 10		(1) Street trees planted pursuant to Section 5-1300 shall be regularly spaced.
11 12		(2) Garages shall be setback at least 20 feet behind the front line of buildings.
13 14 15 16 17	(F)	Minimum Open Space Area. Open space shall be provided in a sufficient amount such that a gross density of one lot per 6,000 square feet is maintained, calculated based on the overall parcel size. Open space shall be preserved by means of a permanent open space easement acceptable to the Board of Supervisors.
18 19 20 21 22 23 24	(G)	Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5-1414(B) shall be provided where a traditional development adjoins an existing or planned residential district, land bay, or development which has a minimum allowable lot size of 6,000 square feet or greater. Such buffer area may be included in open space calculations.[RESERVED]
25	(H)	Other Requirements.
26 27		(1) Blocks shall generally be in a grid pattern, with interconnecting streets or alleys.
28 29 30		(2) Parallel parking may be provided on streets in front of residential lots, except for lots fronting on collector or arterial roads.
31	3-509 Addit	ional Development Standards.
32 33	(A)	Active Recreation Space. A minimum of 5,000 square feet of active recreation space shall be provided for each development of Article 3 Changes BOS Draft Date: November 21, 2019

1 2 3 4 5 6 7		ten (10) units. Thereafter, an additional 100 square feet of such space shall be provided for each single family detached, manufactured housing or duplex unit and 200 square feet for each attached dwelling unit, triplex unit, quadruplex unit, townhouse, and multi-family unit in excess of 10 units. All such active recreation space shall be accessible to all residents by means of internal pedestrian walkways.
8 9 10 11		(B) Off Street Parking. No off street parking for multifamily dwellings shall be permitted in areas between buildings and streets, unless such parking areas are sufficiently bermed and screened so that the parking areas are not visible from the street.
12 13 14 15 16 17		(C) Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5- 1414(B)) shall be provided where a development adjoins an existing or planned residential district, land bay or development which has a minimum allowable lot size of 6,000 square feet or greater. Such buffer area may be included in open space calculations.
18 19 20 21	3-511	Development Setback and Access from Major Roads. In designing residential development, the <u>lot access requirements of Section 1-205(A)</u> and the building and parking setback requirements of Section <u>5-900-5-1403(B)</u> shall be observed.
22 23	Section 3-600	R-16 Townhouse/Multifamily Residential.
	Section 3-600 3-608	R-16 Townhouse/Multifamily Residential. Additional Development Standards.
23		
23 24 25 26 27 28 29 30		 Additional Development Standards. (A) Active Recreation Space. A minimum of 5,000 square feet of active recreation space shall be provided for each development of ten (10) units. Thereafter, an additional 200 square feet minimum shall be provided for each manufactured housing, attached dwelling unit, triplex unit, quadruplex unit, townhouse and multi-family unit in excess of 10 units. All such active recreation space shall be

1 2		minimum allowable lot size of 8,000 square feet or greater. Such buffer area may be included in open space calculations.
3 4 5 6	3-610	Development Setback and Access From Major Roads. In designing residential development, the <u>lot access requirements of Section 1-205(A)</u> and the building and parking setback requirements of Section $\frac{5-9005}{1403(B)}$ shall be observed.
7	Section 3-700	R-24 Multifamily Residential.
8	3-708	Additional Development Standards.
9 10 11 12 13 14		(A) Active Recreation Space. A minimum of 5,000 square feet of active recreation space shall be provided for each development of ten (10) units. Thereafter, an additional 200 square feet minimum shall be provided for each multi-family unit in excess of ten (10) units. All such active recreation space shall be accessible to all residents by means of internal pedestrian walkways.
15 16 17 18		(B) Off Street Parking. No off-street parking for multifamily dwellings shall be permitted in areas between buildings and streets, unless such parking areas are sufficiently bermed and screened so that the parking areas are not visible from the street.
19 20 21 22 23 24		(C) Minimum Buffer. A permanent common open space buffer of fifty (50) feet in depth with a Category 2 Buffer Yard (Section 5- 1414(B)) shall be provided where a development adjoins an existing or planned residential district, land bay or development which has a minimum allowable lot size of 8,000 square feet or greater. Such buffer area may be included in open space calculations.
25 26 27 28	3-710	Development Setback and Access from Major Roads. In designing residential development, the <u>lot access requirements of Section 1-205(A)</u> and the building and parking setback requirements of Section <u>5-9005-1403(B)</u> shall be observed.
29		
30	Section 3-800	GB General Business.
31	3-805	Lot Requirements.
32		(A) Size. 20,000 square feet minimum, exclusive of major floodplain.
33		(B) Width. 100 feet minimum.
34		(C) Yards. Each lot shall provide the following yards:

1			(1)	Front. 50 feet minimum.
2 3 4			(2)	Side. 20 feet minimum for interior side yard; 100 feet minimum side yard abutting an existing or planned residential use.
5 6			(3)	Rear. 50 feet minimum; 100 feet abutting an existing or planned residential use.
7 8 9 10 11			(4)	Development Setback and Access From Major Roads. In designing commercial development, the <u>lot access</u> requirements of Section 1-205(A) and the building and <u>parking setback</u> requirements of Section <u>5-9005-1403(B)</u> shall be observed.
12				
13	Section 3-900	CLI –	Comm	ercial Light Industrial.
14	3-905	Lot Re	equirer	nents.
15 16 17		(A)	have n	One (1) acre minimum. Any lot less than two (2) acres shall no direct access to Route 50, regardless of whether Section 3-) is met.
18		(B)	Width	a. 200 feet minimum.
19		(C)	Depth	. 200 feet minimum.
20		(D)	Yards	
21 22 23			(1)	Adjacent to Roads. Except where a greater setback is required by Section $\frac{5-9005-1403(B)}{5-9005}$, thirty five (35) feet for building; twenty five (25) feet for parking.
24 25 26 27 28 29	3-907	a desig natural surrour and cir	n wher lands nding p culatio	Criteria. The purpose of the following sections is to achieve eby buildings are located, oriented and designed to respect the cape, principles of energy conservation, relationships to roperties and buildings, views from major arterials, site access n needs, and the desired overall character of the district as a way into Loudoun County.
30 31 32 33 34 35		(A)	to enco and r interse traffic	portation Design. Transportation elements shall be designed ourage smooth traffic flow with controlled turning movements ninimum hazards to vehicular or pedestrian traffic at ections with traffic controls such as traffic lights, stop signs or calming features. Left-turn storage and right turn lanes traffic dividers shall be required where existing or anticipated

1		heavy flows indicate need. In general, minor streets shall not be
2		connected with streets outside the district in such a way as to
3		encourage the use of such minor streets by substantial amounts of
4		through traffic. To the maximum extent feasible, land development
5		applications shall identify opportunities and methods for shared
6		access and inter-parcel linkages.
C C		acces and more barren munder
7	(B)	Buffering and Screening. Yards, berms, vegetative screening,
8		fences, or walls shall be provided to buffer residential districts and
9		public streets from uses allowed in this district. In particular,
10		outdoor storage, off-street parking areas and service areas for
11		loading and unloading and for storage and collection of materials,
12		supplies, and/or refuse and garbage, shall be screened so that such
13		areas are not visible from any public right-of-way and/or residential
14		use. Areas for the collection and storage of refuse and outdoor
15		storage areas shall be fully enclosed by a structure composed of
16		opaque materials. Such materials shall be compatible with those
17		used in the exterior construction of the principal
18		building.[RESERVED]
19	(C)	Landscaped Open Space. Minimum landscaped open space on any
20		individual lot shall not be less than .10 times the buildable area of
21		the lot.
22	(D)	Off-Street Parking and Loading Facilities. All off-street parking
	(-)	
23		spaces shall be within 500 feet by safe and convenient pedestrian
		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended
23		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located
23 24		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended
23 24 25		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located
23 24 25 26 27		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings.
23 24 25 26 27 28	(E)	spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted
23 24 25 26 27		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings.
23 24 25 26 27 28		spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district:
23 24 25 26 27 28 29 30		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated
23 24 25 26 27 28 29 30 31		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of
23 24 25 26 27 28 29 30		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated
23 24 25 26 27 28 29 30 31		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of
23 24 25 26 27 28 29 30 31 32		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals.
23 24 25 26 27 28 29 30 31 32 33		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or
23 24 25 26 27 28 29 30 31 32 33 34 35		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the floor space of the principal use of the building.
23 24 25 26 27 28 29 30 31 32 33 34 35 36		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the floor space of the principal use of the building. (3) Outdoor storage for permitted and/or special exception uses,
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the floor space of the principal use of the building. (3) Outdoor storage for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the gross lot area.
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the floor space of the principal use of the building. (3) Outdoor storage for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the gross lot area. No storage of any kind shall be permitted within any
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the floor space of the principal use of the building. (3) Outdoor storage for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the gross lot area.
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38		 spaces shall be within 500 feet by safe and convenient pedestrian routes of entrances to the buildings the parking spaces are intended to serve. No off-street parking or loading facilities shall be located in required landscaped yards. Off-street parking areas shall, to the maximum extent feasible, be located to the rear of the buildings. Accessory Uses. The following accessory uses shall be permitted in the district: (1) Warehousing, indoor storage and distribution associated with a permitted use, but excluding the bulk storage of gasoline, petroleum products, natural gas and chemicals. (2) Retail sales and personal service uses for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the floor space of the principal use of the building. (3) Outdoor storage for permitted and/or special exception uses, not to exceed twenty-five percent (25%) of the gross lot area. No storage of any kind shall be permitted within any

- (F) Access Limitation for Certain Uses. For all uses listed in Section 1 2 3-903 unless otherwise stated, and all uses listed in Section 3-904, such uses shall be permitted to have direct access to Route 50 (i) 3 only if the property owner can demonstrate that the subject property 4 does not have legal access to any public road other than Route 50 5 6 and does have legal access to the location of a planned Route 50 Parallel Road, as shown on the Countywide Transportation Plan 7 (CTP), as amended, and (ii) provided that such access, if permitted, 8 shall be limited to right-turn-in and right-turn-out entrances to and 9 from Route 50 only as approved by VDOT. Prior to approval of a 10 site plan for these uses, property owners must execute and record an 11 instrument, in form as reviewed and approved by the County, which 12 obligates such owner and successors to relinquish all such direct 13 access rights and close off all direct access to Route 50, at no cost to 14 the County or VDOT, or permit the County or VDOT to close off 15 all direct access without compensation, when alternative access to 16 the site becomes available via public or private street adjacent to the 17 owner's parcel or via other means, such as an available private 18 access easement that provides access to any such public or private 19 20 street. 21 (G) Vehicular Access and Circulation. Primary access and through vehicular traffic impacting residential neighborhoods shall be 22 avoided. Minor streets shall not be connected with streets outside 23 the district in such a way as to encourage the use of such minor 24 streets by through and construction traffic. 25 (H) Pedestrian Access and Circulation. Pedestrian ways shall be 26 incorporated into each development so as to minimize conflicts with 27 vehicular traffic and to enable safe and convenient pedestrian access 28 to all buildings, parking and other facilities. Pedestrian ways shall 29 be extended to adjacent properties and shall connect uses within 30 individual developments. Land development applications shall 31 delineate the on-site pedestrian system and provide connections to 32 such systems in adjacent developments as well as public networks, 33 if applicable. 34 **Utility Requirements.** All new utility distribution lines in the CLI 35 **(I)** district shall be placed underground. 36
 - (J) **Prohibited Uses.** The following manufacturing uses shall not be permitted:
 - (1) Distillation of coal, wood or bones.
 - (2) Fertilizer manufacture.

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1		(3)	Fireworks.			
2		(4)	Garbage incineration other than in municipal plants.			
3 4		(5)	Mixing or batching plants for asphalt, concrete, brick or other paving and construction materials.			
5 6		(6)	Petroleum, alcohol or asphalt refining, mixing or manufacture or storage.			
7		(7)	Material recovery facility.			
8 9 10		(8)	Any other use similar to the above excepted uses which is likely to be injurious or noxious by reason of odor, fumes, dust, smoke, vibration, noise or other causes.			
11 12	(K)	Unifo 50.	rm Landscaping for Front Yard Areas Adjacent to Route			
13 14 15		(1)	All parcels with frontage on Route 50 shall include landscaping in accordance with the Type 5Gateway Corridor Buffer Yard in under Section 5-1414(B)(1).5-1403(E).			
16 17 18 19 20 21 22	(L)	Compatibility. Architectural treatment of buildings, to include materials, color, and style, shall be compatible with buildings located within the same project. Compatibility may be achieved through the use of similar building massing, scale, materials, colors, and other architectural features. For the purposes of this section, a project is defined as a development that is planned, developed or managed as a unit.				
23 24 25	(M)	Building Orientation. The front facade and principal public entrance of all buildings shall be oriented toward an adjacent public street.				
26 27 28 29 30 31 32 33 34 35 36 37	(N)	wheth adjace Buffer adjace percei purpos not be and ro roofto equal	ning of Mechanical Equipment. Mechanical equipment, er ground level or rooftop, shall be <u>screened from view from</u> <u>ent properties and public rights-of-way</u> in accordance with <u>Yard Type 3Section 5-1406</u> , <u>screened from view from</u> <u>ent properties and public rights of way</u> and designed to be ved as an integral part of the principal building. For the ses of this section, mechanical equipment shall include, but i limited to, satellite dishes, exhaust fans, HVAC equipment, of access ladders. In cases where parapets are used to screen p equipment, the maximum height of the parapet shall be to the top of the highest mechanical unit but shall not exceed aximum height allowed in the district by more than 3 feet.			

11 (1) Restaurant, including fast food with drive-through. 12 (2) Convenience food store. 13 (3) Bank or financial institution, pursuant to Section 5-659. 14 (4) Personal service establishments. 15 (5) Banquet/Event Facility, 25,000 sq. ft. or less. 16 (P) Continuing Care Facility. Continuing Care Facilities shall be permitted in the CLI zoning district subject to the following additional provisions: 19 (1) Size, Density and Location. The maximum lot size shall not exceed the units per acre. The use shall only be located as follows: 23 (a) In areas served by public water and sanitary sewer. 24 (b) With access only from a collector road. 25 (c) Buildings and parking shall be setback a minimum of three hundred (300) feet from Route 50. 27 (2) Required Uses. All continuing care facilities located in the CLI zoning district shall provide the following, subject to the requirements and limitations of these regulations: 30 (a) A minimum of two (2) of the following types of care shall be provided: 32 (i) Congregate Living Facility, limited to a maximum of sixty-five percent (65%) of the total number of units provided.	1 2 3 4 5 6 7 8 9 10	(O)	Auxiliary Uses. The uses listed below shall be permitted on a stand-alone basis, if they are auxiliary to the district and are developed as part of a unified plan for development, in accordance with Section 3-906(D)(1)(b), that contains at least one of the following permitted uses: (i) Establishment for assembly, fabrication, processing, production and/or manufacturing of goods or products; (ii) Flex-industrial uses; (iii) Office, administrative, medical, business and professional; (iv) Research, experimental, testing or development activities; (v) Educational institution; (vi) Hotel/motel; (vii) Museum or Exhibition Facility.					
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maximum of sixty-five percent (65%) of the								
maximum of sixty-five percent (65%) of the	32				(i)	Congregate Living Facility, limited to a		
					~ /			
						total number of units provided.		

1			(ii) Adult Assisted Living.
2			(iii) Nursing Home.
3 4 5 6 7		(b)	Clubhouse or common areas, solely for the residents, employees and their guests, including but not limited to meeting rooms, auditorium, theater, business office, and recreational facilities and other uses related to adult age-restricted community living.
8 9 10 11 12 13 14 15 16 17		(c)	Ancillary retail uses only for continuing care facilities, such as grocery/convenience food store, pharmacy, medical services, barber shop, beauty shop, personal care facilities, eating and drinking establishments, library, bank and financial institutions (without drive-through), business services, laundry, cleaners, or other similar retail uses. The floor area for retail and community service uses shall not exceed ten percent (10%) of the gross residential floor area of the buildings.
18		(d)	Swimming pool.
19		(e)	Health and fitness center.
20		(f)	Bus shuttle service.
21 22		(g)	A minimum of thirty-five percent (35%) of the total land area shall consist of parks and/or open space.
23 24 25	(3)		Requirements. Notwithstanding the requirements in Section 3-905(D), the following yards shall be ed:
26 27 28 29 30 31 32		(a)	Adjacent to roads. Except where a greater setback is required by Section $\frac{5-9005-1403(B)}{5-9005-1403(B)}$, thirty-five (35) feet for buildings and twenty-five (25) feet for parking. No parking, outdoor storage, areas for collection of refuse, or loading space shall be permitted in areas between buildings and streets where such uses are visible from any road.
33 34 35 36 37 38		(b)	Adjacent to Nonresidential Districts and Uses. No building shall be permitted closer than fifty (50) feet to any nonresidential district, any existing or planned nonresidential district, or land bay or lot allowing nonresidential uses. No parking shall be permitted closer than twenty-five (25) feet to any such area. No

1 2 3 4 5 6					parking, outdoor storage, areas for collection of refuse, or loading space shall be permitted in areas between buildings and such nonresidential districts, existing or planned nonresidential districts, or land bays allowing nonresidential uses where such uses are visible from said nonresidential areas.
7 8 9 10 11			(4)	educat employ within provid	opment Criteria. The following recreational, tional, and cultural facilities solely for the residents, yees and their guests shall be located on site or ten (10) miles of the site. If facilities are not led on site, a guaranteed use of and vehicular or
12 13					guaranteed means of transportation to such facilities residents of the development shall be provided.
14				(a)	Golf course (minimum 18 holes).
15				(b)	Chapel.
16				(c)	Medical care facility, outpatient only.
17				(d)	Recreation space, passive.
18 19 20			(5)	zoning	f R e s i d e n t s . Continuing care facilities in the CLI g district shall be subject to a homeowner's ation, as evidenced by a Declaration of Covenants
21 22				review	yed and approved by the County that specifies the stricted nature of the proposed use. A development
23 24				-	ated for an age-restricted development shall be in lance with Virginia Code, Section 36-96.7, as
25 26				amend	led, and shall include in the homeowner's association ration of Covenants policies and procedures which:
27				(a)	Ensure that at least eighty percent (80%) of the
28 29					units are occupied by at least one person 55 years of age or older per unit; and
30 31				(b)	Demonstrate intent by the owner or manager to provide housing for persons 55 years of age or older.
32					
33	Section 3-1000	MR-H	II Mine	eral Res	sources – Heavy Industry.
34	3-1005	Lot R	equirer	nents.	
35		(A)	Miner	al Reso	ource Extraction and Processing (MREP) uses:

1		(1)	Size. 3 acres minimum, exclusive of major floodplain.
2 3		(2)	Width. 300 feet minimum fronting on Class I roads; 200 feet fronting on Class II roads or private access easements.
4		(3)	Depth. 500 feet minimum.
5		(4)	Length/Width Ratio. 3.5 times lot width maximum.
6 7		(5)	Yards. No structure or use shall be located within fifty (50) feet of any property line.
8 9 10 11 12		(6)	Development Setback and Access From Major Roads. In designing industrial development, the <u>lot access</u> requirements of Section 1-205(A) and the building and parking setback requirements of Section 5-9005-1403(B) shall be observed.
13	(B)	Other	uses:
14		(1)	Size. 1 acre minimum, exclusive of major floodplain.
15 16		(2)	Width. 100 feet minimum fronting on Class I or II roads or private access easements.
17		(3)	Depth. No minimum.
18		(4)	Length/Width Ratio. 3.5 times lot width maximum.
19		(5)	Yards.
20 21			(a) Front Yard. No structure or use shall be located within 30 feet of the front property line.
22 23 24 25			(b) Side Yard. No structure or use shall be located within 15 feet of the side yard. When an MR-HI lot is developed adjacent to a non-MR-HI lot, the minimum side yard will increase to 50 feet.
26 27 28 29			(c) Rear Yard. No structure or use shall be located within 25 feet of the rear yard. When an MR-HI lot is developed adjacent to a non-MR-HI lot, the minimum rear yard will increase to 50 feet.
30 31 32 33		(6)	Development Setback and Access From Major Roads. Pursuant to the <u>lot access requirements of Section 1-205(A)</u> and the building and parking setback requirements of Section <u>5-9005-1403(B)</u> .



1 2		S	ARTICLE 4 SPECIAL & OVERLAY DISTRICTS		
3	Section 4-100 Planned Development-Housing.				
4	4-101	Conve	enience Establishments.		
5 6 7 8 9 10 11 12 13 14 15		(A)	Uses permitted. For purposes of these regulations, convenience establishments are defined as small establishments designed and intended to serve the daily or frequent trade or service needs of the immediately surrounding population. Such establishments, as permitted in PD-H districts, include groceries, variety stores, pharmacies pursuant to Section 5-659, coin-operated laundry and dry cleaning agencies, tailoring and dressmaking shops, beauty shops, barber shops, professional offices, carry-out restaurants and similar small scale uses. Specifically excluded are automobile service stations, repair garages, drive-in eating and drinking establishments.		
16 17 18 19 20 21 22 23 24		(B)	Location grouping. Convenience establishments shall be located only in portions of PD-H districts: (a) not served by similar facilities within walking distance; and (b) near dwelling unit densities of at least six (6) units per acre, as to provide substantial walk-in trade. Where more than one convenience establishment of this nature is proposed, they shall be grouped, arranged and designed for maximum pedestrian convenience. Vehicular access and parking areas shall be combined where such combination will result in improvement in public convenience and vehicular circulation.		
25 26 27 28 29 30 31		(C)	Control of potential adverse effects. Convenience establishments shall not have substantial adverse effects on residential uses within the district or adjoining residential districts by reason of their location, design, construction, manner or timing of operation, signs, lighting, parking or access arrangements. Landscaped open space shall be utilized to protect the residential character of the PD-H and surrounding districts.		
32 33 34 35 36		(D)	Maximum size of establishments. No individual convenience establishment established under the provisions of this Section shall have a gross floor area in excess of 5,000 square feet, and no combination of such establishments in any one location shall have a total gross floor area of more than 10,000 square feet.		
37 38 39 40		(E)	Lot Area, Width and Coverage. No minimum lot area or width requirements are set for convenience establishments, but lot coverage by all buildings shall not exceed thirty percent (30%) of the net area of the lot or building site.		

1 2 3 4		(F)	Yards: Building Spacing. Yards shall have the same or greater depth as required for adjoining uses. Where space is left between buildings on the lot or building site, it shall be at least twenty five (25) feet in width.
5 6 7 8 9 10		(G)	Open Space. Non-vehicular open space in an amount equal to at least fifteen percent (15%) of the net area of the site, exclusive of adjoining streets, shall be provided. Such space shall be landscaped or otherwise appropriately improved for general amenity to provide convenient pedestrian circulation, play areas for children, passive recreation areas and the like.
11 12 13 14 15 16 17		(H)	Off-street parking and multiple use of access. Off-street parking spaces shall be two-thirds of that required for the PD-CC neighborhood center. Where appropriate to the general design of the district and timing of operations of the uses involved, accessways may be so located as to serve other uses in the district if such multiple use will not lead to congestion or hazards to pedestrian or vehicular traffic.
18 19		(I)	Access. The <u>lot access</u> requirements of Section <u>5-9001-205(A)</u> shall be observed.
20 21 22		(J)	Signs. Sign limitations shall be as provided in Section 5-1200 of this ordinance, with business signs limited as provided in Section 5-1204(D).
23 24 25 26 27 28	4-109	distric surrou potent withou	Hanning - External Relationships. Site planning within the PD-H t shall provide protection of the development from potentially adverse inding influences, and protection of surrounding areas from ially adverse influences within the development. In particular and at limitation, the proposed development shall demonstrate the ring features:
29 30 31 32 33 34		(A)	Principal vehicular access points shall be designed to encourage smooth traffic flow with controlled turning movements and minimum hazards to vehicular or pedestrian traffic. In general, minor streets shall not be connected with streets outside the district in such a way as to encourage the use of such minor streets by substantial amounts of through traffic.
35 36 37 38 39		(B)	Protection of visibility - pedestrian/cyclist. Where there is pedestrian or bicycle access to a street, no impediment to visibility more than 2-1/2 feet above the level of the center of the street shall be allowed within the visibility triangle required in Section 5-300(B) or VDOT standard, whichever is greater.

1 2 3 4 5 6 7		(C)	Uses adjacent to single-family, agricultural, or residential districts or land bays allowing residential uses. Where residential uses in a PD-H district adjoin a single-family residential, agricultural, or residential district or land bay allowing residential uses, or a commercially zoned development approved subject to proffers prior to adoption of this ordinance, the development shall provide for either:[RESERVED]
8 9 10			(1) Single family dwellings on minimum lots of (20,000) square feet or greater, exclusive of major floodplain, along such perimeter; or,
11 12 13			(2) A permanent open space buffer along such perimeter at least fifty (50) feet in width, landscaped with a Type 2 Buffer Yard.
14 15 16 17 18 19 20 21 22		(D)	Planned shopping centers and convenience establishments adjacent to single family or agricultural residential districts or land bays allowing residential uses shall provide a permanent open space buffer at least (75) feet in width with a Type 3-Buffer Yard Type B. Other nonresidential uses in such perimeter areas shall provide the yards required by Section 4-305(B)(2) or Section 4-505(B)(2). ₅ as applicable and at least fifty (50) feet of the required yards shall be devoted to a permanent open space buffer with a Type 3-Buffer Yard.
23 24 25 26 27 28 29 30		(E)	Height limitations at edges of PD-H districts. Except along boundaries where adjoining districts permit greater heights within similar areas, height limitations shall be limited to an imaginary plane leaning inward from district boundaries at an angle representing an increase in height of one (1) foot for every one (1) foot of horizontal distance perpendicular to the district boundary. No portion of any building in such district shall project through said imaginary plane.
31 32	4-110		lanning - Internal Relationships. The PD-H district shall provide lowing:
33 34 35 36 37		(A)	Maximum Height Restrictions. Dwellings and other uses allowed in residential zoning districts: as provided in the applicable R District. Commercial, industrial and office buildings: as provided in the applicable PD-CC, PD-OP, and PD-IP Districts, per Section 4-200, 4-300, and 4-500.
38 39 40		(B)	All arterial and collector streets serving a PD-H District, and all streets of any size serving residential (except townhouse and multifamily), commercial, office, institutional and industrial uses

1		within a PD-H district, shall be designed and constructed to VDOT
2		standards for inclusion in the state highway system. Roads serving
3		townhouse and multifamily uses only may be designed and
4		constructed to private streets standards set forth in the Facilities
5		Standards Manual, provided the following conditions are met:
6		(1) All residences served by a private road shall be subject to a
7		recorded covenant expressly requiring private maintenance
8		of such road in perpetuity and the establishment,
9		commencing with the initial record plat, of a reserve fund for
10		repairs to such road.
11		(2) The record plat and protective covenants for such
12		development shall expressly state that the County and
13		VDOT have no, and will have no, responsibility for the
14		maintenance, repair, or replacement of private roads.
15		(3) Sales brochures or other literature and documents provided
16		by the seller of lots served by such private roads shall include
17		information regarding responsibility for maintenance, repair,
18		replacement, and covenants pertaining to such lots including
19		a statement that the County has no, and will have no,
20		responsibility for the maintenance, repair, or replacement of
21		private roads.
22	(C)	Streets, drives, parking and service areas shall provide immediate,
23		safe and convenient access and circulation for dwelling units and
24		project facilities and for service and emergency vehicles including
25		fire-fighting equipment, furniture moving vans, fuel trucks, garbage
26		collection, deliveries, and snow removal. Streets shall not be laid
27		out so as to encourage outside or through traffic to traverse the
28		development on minor streets.
29	(D)	Vehicular access to public streets, from off-street parking and
30		service areas serving less than eighty (80) dwelling units, may be
31		directly to the street via a single point of access. Vehicular access,
32		from off street parking and service areas serving eighty (80) or more
33		units, shall require two (2) or more points of access. Determination
34		of number of the actual dwelling units served shall be based on
35		normal routing of traffic anticipated in the development.
36	(E)	Vehicular access from off-street parking and service areas shall be
37		designed to minimize the number of curb cuts and to promote safe
38		traffic flow.
20	(\mathbf{F})	Ways for nodestrians and evalists, use by smarganey or somiss
39	(F)	Ways for pedestrians and cyclists; use by emergency or service
40		vehicles. Ways shall be provided to all dwelling units, project

1 2 3 4 5 6			facilities and principal off-site destinations. Accessways to be used by children as routes to school or other destinations shall be so located and safeguarded as to minimize contacts with automotive traffic. Street crossings shall be held to a minimum on such walkways. Pedestrian ways may be combined with other easements and used only by emergency or service vehicles.
7 8		(G)	Protection of visibility - cyclists and pedestrians. Visibility clearance at intersections shall be as provided in Section 5-300.
9 10 11		(H)	Recycling collection centers shall be designed and located in accordance with the provisions of Section 5-607 of this Ordinance and the requirements of the Facilities Standards Manual.
12 13 14 15 16 17		(I)	Uses adjacent to single-family residential, or agricultural and residential districts or land bays allowing residential uses. Where residential uses in a PD-H district adjoin a single-family residential, agricultural, residential district or land bay allowing residential uses, the development shall provide for either:[RESERVED]
18 19 20			(1) Single family dwellings on minimum lots of (20,000) square feet or greater, exclusive of major floodplain, along such perimeter, or;
21 22 23			(2)(1) A permanent open space buffer along such perimeter at least fifty (50) feet in width, landscaped with a Type 2 Buffer Yard.
24 25 26 27 28 29 30 31 32		(J)	Planned shopping centers and convenience establishments adjacent to single-family residential, agricultural-residential districts shall provide a permanent open space buffer at least seventy-five (75) feet in width with a <u>Buffer Yard Type B</u> Type 3 Buffer Yard. Other nonresidential uses in such perimeter areas shall provide the yards required by Section 4-305(B)(2) or Section 4-505(B)(2)., as applicable and at least fifty (50) feet of the required yards shall be devoted to a permanent open space buffer with a Type 3 Buffer Yard.
33	Section 4-200	PD-C	C Planned Development - Commercial Center.
34	4-206	Buildi	ng Requirements.
35		(A)	Lot Coverage. No maximum.
36 37 38		(B)	Floor Area Ratio. .40 maximum with surface parking lots; .60 maximum if parking structures are provided; 2.0 maximum on individual lots within a commercial center, provided the commercial

1 2 3			center is developed in accordance with a proffered concept development plan which limits the maximum overall FAR of the center to no more than .40 FAR.
4 5 7 8 9 10 11 12		(C)	Building Height. No building in any commercial center shall exceed forty-five (45) feet; except that in small regional and regional centers a building may be erected to a maximum of fifty (50) feet in a Small Regional Center and one hundred (100) feet in a Regional Center district if it is set back from public streets or from lot lines that do not constitute boundaries of districts with lower maximum height restrictions, in addition to each of the required minimum yard dimensions, a distance of not less than one (1) foot for each one (1) foot of height that it exceeds the forty-five (45) foot limit.
13 14 15 16 17 18 19 20 21 22 23		(D)	Vehicular Access. Primary access shall be prohibited on residential neighborhood streets. This prohibition does not apply to collector roads through residential neighborhoods. Each commercial center shall provide a vehicular circulation plan that minimizes direct vehicular access to parking stalls from major cartways, and provides other on and off-site improvements to enhance pedestrian and vehicular circulation. Minor streets shall not be connected with streets outside the district in such a way as to encourage the use of such minor streets by through and construction traffic. In addition, each commercial center shall provide convenient and coordinated vehicular access to public roadways only as follows:
24			(1) Neighborhood Centers. Local access roads.
25			(2) Community Centers. Collector roads.
26			(3) Small Regional Centers. Major collector roads.
27			(4) Regional Centers. Controlled access onto arterial roads.
28		(E)	Development Setback and Access from Major Roads. In
29		(-)	designing a planned shopping center development, the lot access
30			requirements of Section 1-205(A) and the building and parking
31			setback requirements of Section <u>5-9005-1403(B)</u> shall be observed.
32	See 4 4 200		
33	Section 4-300		P Planned Development - Office Park.
34	4-305		equirements.
35		(A)	Size. One (1) acre minimum, exclusive of major floodplain.
36		(B)	Yards.

1 2 3 4 5 6 7			(1) Adjacent to roads. Except where a greater setback is required by Section <u>5-9005-1403(B)</u> , no building shall be permitted closer than thirty-five (35) feet to the right-of-way from any road and no parking shall be permitted closer than twenty-five (25) feet to the right-of-way from any road. No outdoor storage, areas for collection of refuse, or loading space shall be permitted in such setbacks.
8	4-307	Use L	imitations.
9 10 11 12 13		(A)	Accessory Uses. The following accessory uses shall be permitted provided they are located in the same building as the permitted principal uses primarily served, and provided they occupy in the aggregate not more than twenty-five percent (25%) of the floor area of such building:
14			(1) Central reproduction and mailing services, and the like.
15			(2) Quick print shop.
16 17			(3) Restaurant, including carry-out, but excluding drive- through.
18 19 20			(4) Pharmacies, laboratories, testing, engineering, and research, and establishments for the production, fitting or sale of optical or prosthetic appliances.
21			(5) Personal service establishment.
22			(6) Convenience food store.
23			(7) Retail sales establishment.
24 25 26 27		(B)	Accessory Structures and Uses. As an accessory use, parking garages or areas for commuter parking may be permitted, but spaces for this purpose shall be provided in addition to the required parking spaces provided for in Section 5-1100.
28 29 30 31		(C)	Landscaped Open Space. Landscaped open space on any individual lot shall not be less than .20 times the buildable area of the lot. Such open space shall be landscaped and maintained in accord with Section 5-1400.
32 33		(D)	Utility Requirements. All new utility distribution lines located on PD-OP zoned land shall be placed underground.
34 35		(E)	Site Planning. Within any PD-OP district, landscaping, buffering, and screening shall be used to screen outdoor storage, areas for

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1 2			collection of refuse, loading areas and parking from streets, agricultural and residential uses.		
3 4		(F)	Access from Major Roads. Access from adjacent public roads shall comply with Section $\frac{5-9001-205(A)}{5-9001-205(A)}$ of this Ordinance.		
5 6 7			(1) Primary access shall be prohibited on residential neighborhood streets. This prohibition does not apply to collector roads through residential neighborhoods.		
8	Section 4-400	PD-R	DP Planned Development - Research and Development Park.		
9	4-405	Lot R	equirements.		
10		(A)	Size. Two (2) acres minimum, exclusive of major floodplain.		
11		(B)	Yards.		
12 13			(1) Adjacent to roads. Except where a greater setback is required by Section <u>5-9005-1403(B)</u> , no building shall be		
14			permitted closer than thirty-five (35) feet to any roads and		
15			no parking shall be permitted closer than twenty-five (25)		
16			feet to the right-of-way of any road. No outdoor storage,		
17 18			areas for collection of refuse, or loading space shall be permitted in such setbacks.		
19	4-407	Use L	imitations.		
20		(A)	Landscaped Open Space. Landscaped open space on any		
21			individual lot shall not be less than .20 times the buildable area of		
22			the lot.		
23		(B)	Buffering/Screening. Landscaping, buffering, and screening shall		
24			be used to screen outdoor storage, areas for collection of refuse,		
25			loading area and parking from streets and agricultural and		
26			residential uses.		
27		(C)	Accessory Structures and Uses. As an accessory use, parking		
28			garages or areas for commuters may be permitted, but spaces for this		
29			purpose shall be provided in addition to the required parking spaces		
30			provided for in Section 5-1100. Accessory structures and uses other		
31			than for commuter parking shall be permitted only where said uses		
32 33			and structures are customarily accessory and clearly incidental and subordinate to the permitted principal use and structures, not to		
33 34			exceed 20% of the total floor area of the building.		
35		(D)	Loading Areas. No loading area shall be permitted within the		
36			required yard of any building. All loading shall be placed at the rear		

1 2				of the building. Loading areas shall be screened from view ning land not in the PD-RDP district and from public streets.		
3 4 5 6		(E)	Minimum Floor Space Mix. At build-out, a minimum of twenty (20%) percent of total floor space in the park shall be committed to research and development uses or to Educational Institutions or schools, public or private.			
7 8		(F)	-	Requirements. All new utility distribution lines located on P zoned land shall be placed underground.		
9 10		(G)		from Major Roads. Access from adjacent public roads mply with Section $\frac{5-9001-205(A)}{1-205(A)}$ -of this Ordinance.		
11 12 13			r	Primary access shall be prohibited on residential neighborhood streets. This prohibition does not apply to collector roads through residential neighborhoods.		
14						
15	Section 4-500	PD-IF	Planned	Development - Industrial Park.		
16 17	4-503			s. The following uses shall be permitted in any PD-IP to the requirements and limitations of these regulations.		
18		(A)	Adult da	ay care center.		
19		(B)	Agricult	ture, horticulture, forestry, or fishery.		
20		(C)	Commu	ter parking lot.		
21		(D)	Distribu	tion facility.		
22		(E)	Facility	for lessons in dance, gymnastics, judo and sports training.		
23		(F)	Flex ind	ustrial use, pursuant to Section 5-608.		
24 25		(G)	Office, a provided	administrative, business and professional, (i.e. office uses) 1:		
26 27 28			a	Office uses are an integral design element of a site plan for an industrial site or park containing not less than 40,000 square feet of gross floor area; and		
29 30 31			S	Office uses shall be located no further than 100 feet from the setback, as established by Section <u>5-9005-1403(B)</u> , of an arterial or major collector road; and		
32	4-505	Lot R	equireme	ents.		

1		(A)	Size. One (1) acre minimum, exclusive of major floodplain.
2		(B)	Yards.
3 4 5 6 7 8 9			(1) Adjacent to roads. Except where a greater setback is required by Section 5-9005-1403(B), no building shall be permitted closer than thirty-five (35) feet to the right-of-way from any road and no parking shall be permitted closer than twenty-five (25) feet to the right-of-way from any road. No outdoor storage, areas for collection of refuse, or loading space shall be permitted in such setbacks.
10	4-507	Use L	imitations.
11 12 13 14		(A)	Accessory Structures and Uses. As an accessory use, parking garages or areas for commuters may be permitted, but spaces for this purpose shall be provided in addition to the required parking spaces provided in Section 5-1100.
15 16 17		(B)	Landscaped Open Space. Landscaped open space on any individual lot shall not be less than .20 times the buildable area of the lot.
18 19 20 21		(C)	Screening and Buffering. Landscaping, buffering, and screening shall be used to screen outdoor storage, areas for collection of refuse, loading area, and parking from streets and agricultural and residential uses.
22		(D)	Outdoor Storage, Accessory.
23 24 25			(1) No storage of any kind shall be permitted within any front yard, except for underground bulk storage of gasoline or petroleum products.
26 27 28 29 30			(2) Underground bulk storage of gasoline or petroleum products shall not be permitted, except for automobile service stations or as incidental to manufacturing and research and development operations or the servicing of company owned or lease vehicles within enclosed areas defined in (3) below.
31 32 33 34 35 36			(3) Outdoor storage of new and reusable materials, equipment, and vehicles shall be permitted within enclosed areas which are composed of mixed wood, masonry walls, plantings, or other suitable barriers approved by the Zoning Administrator. Such areas must be buffered and screened on the periphery of the storage area.

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1 2		(4)	Waste materials must be stored in a closed container. The burning of waste materials is prohibited.
3 4	(E)		Sales as an accessory use. Warehousing facilities may have sales as an accessory use in accordance with the following:
5 6 7		(1)	Such warehousing facility stores goods for at least one retail establishment located in a zoning district where retail is a permitted principal use.
8 9 10 11		(2)	At least seventy-five (75) percent of the gross floor area of the facility is devoted to warehousing facility use that is not a display area or retail sales area and is not accessible to the public.
12 13 14 15		(3)	Such use shall be designed so that pedestrian and vehicular circulation are coordinated with that on-site and on adjacent properties and vehicular access to the site shall be provided via the internal circulation system of the industrial park.
16 17 18 19		(4)	Such use shall be designed to provide safe and convenient access and to minimize any potential conflicts between industrial service and delivery vehicles, passenger vehicles and pedestrian traffic.
20 21 22 23 24		(5)	Any improvements, such as but not limited to additional parking spaces, travel aisles, additional landscaping, and additional floor area required as the result of the introduction of retail uses to an area designed and developed for industrial uses shall be provided.
25 26 27		(6)	All business, service, storage and display of goods shall be conducted within a completely enclosed building, and all refuse shall be in completely enclosed facilities.
28 29 30		(7)	Notwithstanding the requirements of Section 5-1102 Parking, the retail use shall require one (1) parking space per 500 gross square feet.
31 32 33		(8)	No additional signs are permitted for the retail use; signage for the warehousing facility shall be as provided for in Section 5-1204(D).
34 35 36 37		(9)	Submission and approval of a site plan or amended site plan, as appropriate, prior to the establishment of retail sales is required to demonstrate compliance with the aforementioned Use Limitations.

1 2 3 4 5 6 7 8		(F)	designed to movements a Minor street in such a w through traff shall be des	Access. Principal vehicular access points shall be encourage smooth traffic flow with controlled turning and minimum hazards to vehicular or pedestrian traffic. s shall not be connected with streets outside the district ay as to encourage the use of such minor streets by ic. Principal vehicular access routes for public schools signed to avoid through traffic by vehicles serving ustrial properties.
9 10 11		(G)	designing	At Setback and Access from Major Roads. In an industrial park development, the following s shall be observed:
12 13 14 15 16			roads Ordin	ss from Major Roads. Access from adjacent public is shall comply with Section $\frac{5-9001-205(A)}{-0}$ of this nance. Notwithstanding the foregoing, schools shall be itted emergency access to an arterial or major collector
17 18 19			neigh	ary access shall be prohibited on residential aborhood streets. This prohibition does not apply to ctor roads through residential neighborhoods.
20				
21	Section 4-600	PD-G	Planned De	velopment - General Industry.
21 22	Section 4-600 4-605		Planned De quirements.	
			quirements.	
22		Lot R	quirements.	
22 23 24 25 26		Lot R (A)	quirements. Size. One (1 Yards. (1) Adja requi) acre minimum. cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be
22 23 24 25 26 27		Lot R (A)	quirements. Size. One (1 Yards. (1) Adja requi perm	cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no
22 23 24 25 26 27 28		Lot R (A)	quirements. Size. One (1 Yards. (1) Adja requi perm parki	cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet
22 23 24 25 26 27		Lot R (A)	quirements. Size. One (1 Yards. (1) Adja requi perm parki to the	cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet e right-of-way from any road. No outdoor storage, areas
22 23 24 25 26 27 28 29		Lot R (A)	quirements. Size. One (1 Yards. (1) Adja requi perm parki to the for c	cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet
22 23 24 25 26 27 28 29 30 31 31 32		Lot R (A)	 quirements. Size. One (1) Yards. (1) Adja requiperments perments to the for c in su (2) Adja 	cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet eright-of-way from any road. No outdoor storage, areas ollection of refuse, or loading space shall be permitted ch setbacks. cent to Agricultural and Residential Districts and
22 23 24 25 26 27 28 29 30 31 32 33		Lot R (A)	 quirements. Size. One (1) Yards. (1) Adja require permin parking to the for c in su (2) Adja Land 	cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet eright-of-way from any road. No outdoor storage, areas ollection of refuse, or loading space shall be permitted ch setbacks. cent to Agricultural and Residential Districts and I Bays Allowing Residential Uses. No building,
22 23 24 25 26 27 28 29 30 31 32 33 34		Lot R (A)	 quirements. Size. One (1) Yards. (1) Adja requi perm parkit to the for c in su (2) Adja Land outdo 	cent to roads. Except where a greater setback is red by Section 5-9005-1403(B), no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet eright-of-way from any road. No outdoor storage, areas ollection of refuse, or loading space shall be permitted ch setbacks. cent to Agricultural and Residential Districts and I Bays Allowing Residential Uses. No building, por storage, areas for collection of refuse, or loading
22 23 24 25 26 27 28 29 30 31 32 33 34 35		Lot R (A)	 quirements. Size. One (1) Yards. (1) Adja requi perm parkit to the for c in su (2) Adja Lando outdo area) acre minimum. cent to roads. Except where a greater setback is red by Section <u>5-9005-1403(B)</u> , no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet eright-of-way from any road. No outdoor storage, areas ollection of refuse, or loading space shall be permitted ch setbacks. cent to Agricultural and Residential Districts and I Bays Allowing Residential Uses. No building, por storage, areas for collection of refuse, or loading shall be permitted closer than one hundred (100) feet to
22 23 24 25 26 27 28 29 30 31 32 33 34		Lot R (A)	 quirements. Size. One (1) Yards. (1) Adja requi perm parki to the for c in su (2) Adja Land outda area any s 	cent to roads. Except where a greater setback is red by Section 5-9005-1403(B), no building shall be itted closer than thirty-five (35) feet to any road and no ng shall be permitted closer than twenty-five (25) feet eright-of-way from any road. No outdoor storage, areas ollection of refuse, or loading space shall be permitted ch setbacks. cent to Agricultural and Residential Districts and I Bays Allowing Residential Uses. No building, por storage, areas for collection of refuse, or loading

districts and uses. No parking, outdoor storage, areas for collection of refuse, or loading space shall be permitted in areas between buildings and such agricultural districts, existing or planned residential districts, or land bays allowing residential uses where vehicles in such uses are visible from the said agricultural and residential areas. When a PD-GI lot, parcel and/or landbay is developed adjacent to an agricultural district, an existing or zoned residential district, or land bay allowing residential uses, which was zoned for agricultural or residential uses subsequent to the adoption of this zoning ordinance and subsequent to zoning of the subject property as PD-GI, the setback required in (B)(3) below shall apply.

(3) Adjacent to Other Nonresidential Districts. Fifteen (15) feet for buildings, parking, outdoor storage, and loading areas, except where a greater area is required by Section 5-1400. In the event that a single parcel is zoned for more than one non-residential zoning district, the applicable yard requirement shall be applied only at the property line and not at the zoning district line.

(4) **Yards Between Buildings.**

(a) Where individual lots or building sites are provided, the minimum required yards between buildings on adjacent lots or building sites shall be thirty (30) feet, unless a greater <u>buffer</u> yard is required by Section-<u>5-1400</u>5-1414(A), <u>Buffer Yard and Screening Matrix</u>. Driveways, parking, and covered entrances may be within such yards, however, no such facility may be closer than five (5) feet to lot lines. Covered walkways connecting buildings, or connecting buildings with parking areas, shall be permitted in such yards.

(b) Where there is more than one building on an individual lot or building site, spacing between such buildings shall be as required for fire protection, but if space is left between buildings, it shall be at least twenty-five (25) feet in minimum dimension. Covered walkways connecting buildings, or connecting buildings with parking areas are permitted in such yards and may traverse such space.

4-607

Use Limitations.

1 2 3 4 5 6 7	(A)	garage purpos provid than fe and st	sory Structures and Uses. As an accessory use, parking es or areas for commuters may be permitted, but spaces for this se shall be provided in addition to the required parking spaces led for in Section 5-1100. Accessory structures and uses other or commuter parking shall be permitted only where said uses ructures are customarily accessory and clearly incidental and linate to the permitted principal use and structures.
8 9 10 11	(B)	indivio the lot	scaped Open Space. Minimum landscaped open space on any dual lot shall not be less than .20 times the buildable area of t. Such landscaped open space shall be used to enhance the rance of the lot.
12 13 14 15	(C)	shall b loadin	ning and Buffering. Landscaping, buffering, and screening be used to screen outdoor storage, areas for collection of refuse, g areas and parking from streets and agricultural and ntial uses.
16	(D)	Outdo	oor Storage.
17 18 19		(1)	No storage of any kind shall be permitted within any front yard, except for underground bulk storage of gasoline or petroleum products.
20 21 22 23 24 25		(2)	Underground bulk storage of gasoline or petroleum products shall not be permitted, except for automobile service stations or as incidental to manufacturing and research and development operations or the servicing of company owned or leased vehicles within enclosed areas defined in (3) below.
26 27 28		(3)	Outdoor storage of waste materials, equipment, supplies and vehicles shall be buffered and screened on the periphery of the storage area.
29 30		(4)	Waste materials must be stored in a closed container. The burning of waste materials is prohibited.
31 32 33		(5)	Parking of two-axle vehicles such as automobiles, pick-up trucks, and/or service vans utilized in connection with a permitted use.
34 35 36 37 38 39	(E)	design mover Minor in suc	ular Access. Principal vehicular access points shall be need to encourage smooth traffic flow with controlled turning nents and minimum hazards to vehicular or pedestrian traffic. If streets shall not be connected with streets outside the district h a way as to encourage the use of such minor streets by the traffic. Principal vehicular access routes for public schools

1 2				be designed to avoid through traffic by vehicles serving ent industrial properties.
3 4 5		(F)	design	opment Setback and Access from Major Roads. In hing a general industrial development, the following ements shall be observed:
6 7 8 9 10			(1)	Access from Major Roads. Access from adjacent public roads shall comply with Section <u>5-9001-205(A)</u> –of this Ordinance. Notwithstanding the foregoing, schools shall be permitted emergency access to an arterial or major collector road.
11 12 13			(2)	Primary access shall be prohibited on residential neighborhood streets. This prohibition does not apply to collector roads through residential neighborhoods.
14				
15	Section 4-700	PD-SA	A Plann	ned Development - Special Activity.
16	4-705	Lot R	equire	ments.
17		(A)	Size.	Ten (10) acres, exclusive of major floodplain.
18		(B)	Yards	5.
19 20 21 22 23 24 25			(1)	Adjacent to roads. Except where a greater setback is required by Section $\frac{5-9005-1403(B)}{5-9005-1403(B)}$, no building shall be permitted closer than thirty-five (35) feet to any road and no parking shall be permitted closer than twenty-five (25) feet to the right-of-way from any road. No outdoor storage, areas for collection of refuse, or loading space shall be permitted in such setbacks.
26	4-707	Use Li	imitati	ons.
27 28 29 30 31 32 33		(A)	garage purpos provid than fe and st	sory Structures and Uses. As an accessory use, parking es or areas for commuters may be permitted, but spaces for this se shall be provided in addition to the required parking spaces led for in Section 5-1100. Accessory structures and uses other for commuter parking shall be permitted only where said uses ructures are customarily accessory and clearly incidental and dinate to the permitted principal use and structures.
34 35 36		(B)		scaped Open Space. Landscaped open space on any dual lot shall not be less than .20 times the buildable area of t.

1 2 3 4		(C)	shall b loadin	ning and Buffering. Landscaping, buffering, and scree be used to screen outdoor storage, areas for collection of re ag areas and parking from streets and agricultural ntial uses.	efuse,
5 6 7		(D)	develo	as from Major Roads. In designing special actors operation of Section 5-9001-20 be observed.	
8					
9	Section 4-800	PD-T	C Planı	ned Development - Town Center.	
10	4-805	Lot R	equirer	ments.	
11		(A)	Town	Center Core.	
12 13 14 15 16			(1)	Width. No minimum; except the minimum lot widt single-family attached dwellings shall be 16 feet and minimum lot width for single-family detached dwel shall be 25 feet. The maximum lot width for single-fa- detached dwellings shall be 35 feet.	d the llings
17 18 19			(2)	Depth. No minimum; the maximum lot depth for sin family attached dwellings and single-family detaidwellings shall be 70 feet.	-
20			(3)	Yards, within the Town Center Core.	
21				(a) Front. No minimum; 25 feet maximum.	
22 23 24 25 26 27				(b) Side. No minimum; except 5 feet minimum nonresidential use abutting a lot used or planne single-family attached dwellings or single-fa detached dwellings. The 5 feet minimum for residential uses shall not apply to build containing dwellings above nonresidential uses.	ed for amily non- dings
28 29 30 31 32 33 34				(c) Rear. No minimum; except 15 feet minimum rear yard of a nonresidential use abutting a lot or planned for single-family attached dwelling single-family detached dwellings. The 15 minimum for non-residential uses shall not app buildings containing dwellings above nonreside uses.	used gs or feet ply to
35		(B)	Town	Center Fringe.	

1		(1)	Width	1. No minimum; except 25 feet minimum for single-
2				detached dwellings; 16 feet minimum for single-
3				v attached dwellings.
4		(2)	Depth	. No minimum; the maximum lot depth for single-
5			-	attached dwellings and single-family detached
6			•	ngs shall be 80 feet.
7		(3)	Yard	s, within the Town Center Fringe.
8			(a)	Front. 5 feet minimum; 35 feet maximum.
9			(b)	Side. No minimum; except 10 feet minimum for a
10				nonresidential use abutting a lot used or planned for
11				single-family attached dwellings or single-family
12				detached dwellings. The 10 feet minimum for non-
13				residential uses shall not apply to buildings
14				containing dwellings above nonresidential uses.
15			(c)	Rear. No minimum; except 15 feet minimum for a
16				nonresidential use abutting a lot used or planned for
17				residential use. The 15 feet minimum for non-
18				residential uses shall not apply to buildings
19				containing dwellings above nonresidential uses.
20	(C)	Othe	r vard r	equirements.
		othe	·	-1
21			-	
21 22		(1)	Adjac	ent to roads. Yard requirements for buildings, to
			Adjac includ	ent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with
22 23			Adjac includ Sectio	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater
22 23 24			Adjac includ Sectio setbac	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater k is required by Section $\frac{5-9005-1403(B)}{5-1403(B)}$. No outdoor
22 23 24 25			Adjac includ Sectio setbac storag	cent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with $n 4-805(A)(3)$ and $4-805(B)(3)$, except where a greater k is required by Section $\frac{5-9005-1403(B)}{5-9005-1403(B)}$. No outdoor e, areas for collection of refuse, or loading space shall
22 23 24 25 26			Adjac includ Sectio setbac storag be per	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater k is required by Section $5-9005-1403(B)$. No outdoor e, areas for collection of refuse, or loading space shall mitted in required front setbacks or in any front yard.
22 23 24 25 26 27			Adjac includ Sectio setbac storag be per No off	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater k is required by Section $\frac{5-9005-1403(B)}{1000000000000000000000000000000000000$
22 23 24 25 26			Adjac includ Sectio setbac storag be per No off 10 fee	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater k is required by Section $5-9005-1403(B)$. No outdoor e, areas for collection of refuse, or loading space shall mitted in required front setbacks or in any front yard.
22 23 24 25 26 27 28			Adjac includ Sectio setbac storag be per No off 10 fee greate	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater k is required by Section $\frac{5-9005-1403(B)}{1000000000000000000000000000000000000$
22 23 24 25 26 27 28 29		(1)	Adjac includ Sectio setbac storag be per No off 10 fee greates	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and 4-805(B)(3), except where a greater k is required by Section $\frac{5-9005-1403(B)}{5-9005-1403(B)}$. No outdoor e, areas for collection of refuse, or loading space shall mitted in required front setbacks or in any front yard. f-street surface parking shall be permitted closer than et to the right-of-way of any road, except where a r setback is required by Section $\frac{5-9005-1403(B)}{5-9005-1403(B)}$.
22 23 24 25 26 27 28 29 30		(1)	Adjac includ Sectio setbac storag be per No off 10 fee greate Adjac parkin	tent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with n 4-805(A)(3) and $4-805(B)(3)$, except where a greater k is required by Section $\frac{5-9005-1403(B)}{1000000000000000000000000000000000000$
22 23 24 25 26 27 28 29 30 31		(1)	Adjac includ Sectio setbac storag be per No off 10 fee greates Adjac parkin except	the roads. Yard requirements for buildings, to e structured parking, shall be in accordance with in 4-805(A)(3) and 4-805(B)(3), except where a greater k is required by Section $\frac{5-9005-1403(B)}{1000000000000000000000000000000000000$
22 23 24 25 26 27 28 29 30 31 32		(1) (2)	Adjac includ Sectio setbac storag be per No off 10 fee greate Adjac parkin except	the roads. Yard requirements for buildings, to e structured parking, shall be in accordance with in 4-805(A)(3) and 4-805(B)(3), except where a greater k is required by Section $\frac{5-9005-1403(B)}{1000000000000000000000000000000000000$
22 23 24 25 26 27 28 29 30 31 32 33 33 34	4-808 Land	(1) (2) d Use An Gene	Adjac includ Sectio setbac storag be per No off 10 fee greates Adjac parkin except rrangen	Sent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with $n 4-805(A)(3)$ and $4-805(B)(3)$, except where a greater k is required by Section $5-9005-1403(B)$. No outdoor e, areas for collection of refuse, or loading space shall mitted in required front setbacks or in any front yard. f-street surface parking shall be permitted closer than et to the right-of-way of any road, except where a r setback is required by Section $5-9005-1403(B)$.
22 23 24 25 26 27 28 29 30 31 32 33 33 34 35	4-808 Land	(1) (2) d Use An	Adjac includ Sectio setbac storag be per No off 10 fee greate Adjac parkin except rrangen rally.	Sent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with $n 4-805(A)(3)$ and $4-805(B)(3)$, except where a greater k is required by Section 5-9005-1403(B). No outdoor e, areas for collection of refuse, or loading space shall mitted in required front setbacks or in any front yard. f-street surface parking shall be permitted closer than et to the right-of-way of any road, except where a r setback is required by Section 5-9005-1403(B).
22 23 24 25 26 27 28 29 30 31 32 33 33 34	4-808 Land	(1) (2) d Use An Gene	Adjac includ Sectio setbac storag be per No off 10 fee greate Adjac parkin except rrangen rally.	Sent to roads. Yard requirements for buildings, to e structured parking, shall be in accordance with $n 4-805(A)(3)$ and $4-805(B)(3)$, except where a greater k is required by Section $5-9005-1403(B)$. No outdoor e, areas for collection of refuse, or loading space shall mitted in required front setbacks or in any front yard. f-street surface parking shall be permitted closer than et to the right-of-way of any road, except where a r setback is required by Section $5-9005-1403(B)$.

1 2 3 4 5 6 7 8 9 10 11 12 13 13 14 15	(2)	A Town Center Core shall have a town green of no less than 40,000 square feet. In a Town Center Core of 30 to 60 acres, the town green may be a minimum of 10,000 square feet, with other greens and/or outdoor plazas open to the public provided elsewhere in the district, provided the square footage of all such areas totals 40,000 square feet, inclusive of the town green. The required town green may be located within the Town Center Fringe and adjacent to the Town Center Core if a public plaza of no less than 10,000 square feet is located within the Town Center Core. An additional 10% of the land area of a district above the base 60 acres shall be devoted to usable open space in the form of greens, pocket parks and/or outdoor plazas open to the public, and at least 50% of this additional area shall be located in the Town Center Fringe.
16 17 18	(3)	A minimum of 25% and a maximum of 50% of the total gross floor area within the district shall be devoted to residential use.
19 20 21 22 23	(4)	A minimum of 3% of the total gross floor area within the district shall be for civic uses and/or other public uses, educational uses, cultural uses, or community rooms and buildings which are located and arranged to generate pedestrian activity.
24 25 26 27 28 29 30	(5)	On-street parking shall be provided generally throughout the district. Where streets and travelways within the district have been designed pursuant to County and Virginia Department of Transportation (VDOT) standards to accommodate on-street parking, such on-street parking may be used to meet the requirements of Section 5-1100 for nonresidential uses within the district.
31 32 33	(6)	The Buffer Yard and Screening requirements of Section $\frac{5-1414(A)}{5-1404}$ and $\frac{5-1414(B)}{5-1404}$ shall not be applicable between uses on adjacent lots developed within the district.
34 35 36	(7)	Pedestrian linkages shall be established within and between blocks in the district and, to the extent possible, between the district and surrounding neighborhoods or activity centers.
 37 38 39 40 41 	(8)	Continuous sidewalks that provide a minimum walkway width of 5 feet shall be provided along both sides of all streets, excluding alleys. Such sidewalks shall be a minimum of 12 feet wide within the Town Center Core and 9 feet wide within the Town Center Fringe. Outdoor dining,

1 2 3 4 5			entertainment, planting, and furniture areas, and other pedestrian amenities, such as benches, transit shelters, kiosks, lamp posts, public art and the like, may be located within sidewalks, but shall not encroach within this minimum 5-foot walkway.
6 7 8 9 10 11		(9)	Street trees shall be planted along both sides of all streets within the district at a minimum density of 1 canopy tree per 40 lineal feet or 1 understory tree per 15 lineal feet of street frontage, excluding alleys. Such trees shall have a minimum caliper of 2 inches at time of planting and a height at maturity of 15 feet or more.
12 13 14 15 16		(10)	All off-street surface parking lots and parking areas shall be landscaped in accordance with Section $\frac{5-14135-1407}{5}$. The location of off-street surface parking lots and parking areas shall not interfere with the reasonable continuity of building facades and pedestrian activity.
17 18 19 20 21		(11)	All above-grade parking structures shall be designed in a manner that is compatible with nearby building architecture to minimize visual impact. Such above-grade parking structures shall feature ground floor treatments that add to the quality of its surroundings.
22 23		(12)	All new utility distribution lines shall be placed underground.
24	(B)	Town	Center Core.
25 26 27 28 29 30 31 32 33 34 35		(1)	The Town Center Core shall be composed of blocks, and the maximum perimeter of each block shall be 1,600 feet as measured at the edge of the right-of-way, excluding alleys. The perimeter of each block may be increased up to a maximum of 3,200 feet when a through-block pedestrian linkage is provided. Such pedestrian linkage shall be a minimum 20 feet wide and located within a public access easement granted to the County that extends the full length of the pedestrian linkage. Vehicular access shall be prohibited on any such pedestrian linkage except for emergency and/or maintenance purposes.
36 37 38 39 40		(2)	At least 50% of the total of all block frontages within the Town Center Core, excluding frontages along alleys, shall be occupied by pedestrian oriented businesses on the ground floor. This requirement shall not apply to that portion of a block frontage that contains the following uses:

1			(a)	Full-block town green; or
2 3 4 5 6 7 8 9 10 11 12 13 14 15			(b)	Green and/or outdoor plaza open to the public with a minimum depth and width of 10 feet and minimum total area of 300 square feet, excluding adjoining sidewalks and through-block pedestrian linkages. Such green and/or outdoor plaza shall be located adjacent to or between building entrances, and shall be designed to create areas for pedestrian activity that are integrated with the surrounding uses on the block. Such green and/or outdoor plaza shall include landscaped and/or hardscaped areas and a mix of amenities, such as seating, public entertainment and active recreation, raised planters, fountains, public art, and/or such other features determined to be acceptable by the Zoning Administrator.
16 17		(3)	-	incipal entrance of buildings shall be oriented towards eet or shall abut a green, outdoor plaza open to the
18				, or the town green.
19		(4)	Off-str	eet parking facilities shall have access from alleys or
20				treets at locations which accommodate safe pedestrian
21			circula	tion.
22		(5)	Outdoo	or storage, areas for collection of refuse, and loading
23 24			areas s	shall be screened from streets, excluding alleys, and tial uses using opaque material.
25	(C)	Town	Center	Fringe.
26		(1)	The To	own Center Fringe shall be composed of blocks, and
27				ximum perimeter of each block shall be 1,600 feet as
28				red at the edge of the right-of-way, excluding alleys.
29			-	erimeter of each block may be increased up to a
30				num of 3,200 feet when a through-block pedestrian
31 32			-	e is provided. Such pedestrian linkage shall be a um 20 feet wide and located within a public access
32 33				ent granted to the County that extends the full length
34				e pedestrian linkage. Vehicular access shall be
35				ited on any such pedestrian linkage except for
36			-	ency and/or maintenance purposes.
37		(2)		caping, buffering, and screening shall be used to
38				outdoor storage, areas for collection of refuse, loading
39				nd parking from streets and residential uses. Outdoor
40			storage	e of waste materials and any other type of equipment

1 2			and supplies shall be buffered and screened along the periphery of the storage area.
3 4 5 6 7		(D)	Access from Major Roads. The <u>lot access</u> requirements of Section $\frac{5-9001-205(A)}{200000000}$ shall be observed. Primary access to the district shall be prohibited on residential neighborhood streets. This prohibition shall not apply to minor collector or major collector roads through residential neighborhoods.
8			
9	Section 4-900	PD-C	V Planned Development – Countryside Village.
10	4-911	Devel	opment Standards.
11		(A)	Block Form and Size.
12 13			(1) Blocks of a generally rectangular shape shall be the main organizing feature of the Village Neighborhood and Village
14			Core. While topography, existing vegetation, stream
15			channels and design intentions shall influence block shape
16			and size, the length of such blocks in the Village Core and
17			Village Neighborhood interior shall be no less than three
18			hundred (300) feet nor more than six hundred (600) feet as
19 20			measured along front lot lines, between intersections of streets. The block length along the periphery of the Village
20			Neighborhood bordering the Conservancy Area shall be a
22			maximum of one thousand (1000) feet to facilitate a visual
23			transition towards the Conservancy Area.
24			(2) The blocks of the Village Core shall be subdivided into
25			generally rectangular shaped lots, having frontage on a
26			street. The layout of such lots shall respond to
27			environmental factors, the proposed use, and design
28			intentions.
29		(B)	Variation of Lot Sizes and Building Types.
30			(1) Single-family detached development in the Village
31			Neighborhood shall incorporate a variety of lot sizes,
32			building types and/or forms (Typical drawing required).
33			(2) General Rule. In all single-family detached subdivisions in
34			the Village Neighborhood containing ten (10) or more lots,
35			a mixture of lot sizes and dimensions shall be provided in
36			order to allow a variety of housing opportunities and avoid
37			monotonous streetscapes. For example, larger and wider lots
38			are encouraged on corners. Smaller lots are encouraged

1			adjacent to parks and open spaces. No more than sixty $a_{1} = a_{1} + a_{2} + a_{3} + a_{4} + a_{5} $
2			percent (60%) of all lots shall be similar in total lot area. For
3			purposes of this subsection, "similar" lot areas shall be
4 5			defined as within five hundred (500) square feet of each other.
6		(3)	Exception. Up to seventy percent (70%) of the lots within
7			the subject subdivision may be similar if the Zoning
8			Administrator, pursuant to Section 6-401, makes a finding
9			that, notwithstanding deviation from the sixty percent (60%)
10			standard stated above, lot sizes and dimensions are
11			sufficiently varied for different building types and forms, to
12			avoid monotonous streetscapes.
13		(4)	Dispersion of Lot Sizes. Similar lot sizes shall be
14			distributed throughout a subdivision rather than consolidated
15			in one area, unless the Zoning Administrator, pursuant to
16			Section 6-401, makes a finding that the intent of this district
17			and of the Zoning Ordinance shall be better served by a
18			design that tends to consolidate lots of similar sizes.
19	(C)		e Core Features. The Village Core shall incorporate on-site
20		ameni	ties or features listed below:
21		(1)	A centrally located park, green, or square and at least one
21 22		(1)	
		(1)	A centrally located park, green, or square and at least one
22		(1)	A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section
22 23			A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below.
22 23 24			A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is
22 23 24 25			A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates
22 23 24 25 26		(2)	A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians.
22 23 24 25 26 27		(2)	A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below.A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians.A minimum of fifty (50) and a maximum of one hundred
22 23 24 25 26 27 28		(2)	A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below.A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians.A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified
22 23 24 25 26 27 28 29		(2)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and
22 23 24 25 26 27 28 29 30		(2)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the
22 23 24 25 26 27 28 29 30 31		(2)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the village. A grocery store, if provided, shall count towards the
22 23 24 25 26 27 28 29 30 31 32		(2)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the village. A grocery store, if provided, shall count towards the minimum amount of retail space required, but shall not be
22 23 24 25 26 27 28 29 30 31 32 33		(2) (3)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the village. A grocery store, if provided, shall count towards the minimum amount of retail space required, but shall not be subject to the maximum limit of required retail space.
22 23 24 25 26 27 28 29 30 31 32 33 33		(2) (3)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the village. A grocery store, if provided, shall count towards the minimum amount of retail space required, but shall not be subject to the maximum limit of required retail space.
22 23 24 25 26 27 28 29 30 31 32 33 34 35		(2) (3) (4)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the village. A grocery store, if provided, shall count towards the minimum amount of retail space required, but shall not be subject to the maximum limit of required retail space. A minimum of two civic uses, pursuant to the Use list in Section 4-908.
22 23 24 25 26 27 28 29 30 31 32 33 33 34 35 36		(2) (3) (4)	 A centrally located park, green, or square and at least one additional park, square, green or plaza, pursuant to Section 4-911(D), below. A water feature, such as a lake, pond, or fountain, which is easily accessible by pedestrians, and includes or integrates seating areas for pedestrians. A minimum of fifty (50) and a maximum of one hundred (100) square feet of retail and office space, as specified under the Retail Sales and Service Use Category and Office Use Category, is required per dwelling unit in the village. A grocery store, if provided, shall count towards the minimum amount of retail space required, but shall not be subject to the maximum limit of required retail space. A minimum of two civic uses, pursuant to the Use list in Section 4-908. Bicycle and Pedestrian accommodations as defined by the

1 2		(6)	-	hasing for construction of on-site amenities within the e Core shall meet the following minimums:
3 4 5 6 7 8 9 10			(a)	Zoning permits for at least twenty-five percent (25%) of the Retail Sales and Service Use Category and Office Use Category as specified in [3] above, must be obtained, and all other on-site amenities required in the Village Core [(1), (2), (4) and (5)] above, must be provided prior to the issuance of zoning permits for more than 75% of all residential units proposed in the Countryside Village.
11 12 13 14 15 16			(b)	Zoning permits for at least fifty percent (50%) of the Retail Sales and Service Use Category and Office Use Category as specified in [3] above, must be obtained prior to the issuance of zoning permits for more than ninety percent (90%) of all residential units proposed in the Countryside Village.
17 18 19 20 21			(c)	All zoning permits for the Retail Sales and Service Use Category and Office Use Category as specified in [3] above, must be obtained prior to the issuance of zoning permits for all residential units proposed in the Countryside Village.
22	(D)	Green	s, Park	xs, Squares and Plazas.
23		(1)	Area	Requirement.
24			(a)	3 acres minimum for a community park.
25			(b)	40,000 sq. ft. minimum for a neighborhood park.
26 27			(c)	10,000 sq. ft. minimum for other greens, parks and squares.
28			(d)	3000 sq. ft. minimum for a plaza.
29 30		(2)		num Width. The smallest dimension of the green, square or plaza shall be:
31			(a)	100 feet for a community or neighborhood park
32			(b)	60 feet for other greens, parks and squares.
			(c)	50 feet for a plaza.

1 2 3 4 5		(3)	No residential unit in the Village Neighborhood shall be located more than one thousand five hundred (1500) feet from a neighborhood park, community park, square or green. Such parks, squares and greens must be interspersed throughout the Village Neighborhood.
6 7 8		(4)	Greens, parks, squares and plazas shall be located in visually prominent areas. In the Village Core, they shall be located in conjunction with civic uses or commercial uses.
9 10 11 12 13 14 15 16		(5)	Athletic fields may be located along collector roads, other than those listed in Table 4, and may be accessed therefrom. Such fields shall be buffered from all roads and residential development with a permanent common open space buffer of fifty (50) feet in depth with required landscaping equivalent to that of a <u>Category 2 Buffer Yard (Section 5- 1414(B)) Road Corridor Buffer Type 2 (Section 5-1403(D))</u> and a Buffer Yard Type B (Section 5-1404(D)).
17	(E)	Fron	tage/Entrance Standards in the Village Core.
18 19 20 21 22 23		(1)	The front of any commercial building shall be oriented towards the street or main village green or square. A minimum of sixty percent (60%) of any commercial building façade facing the front lot line shall abut the front lot line or sidewalk. The main entrance to such commercial building shall be from the front.
24 25 26		(2)	Commercial buildings fronting on the same street and located on the same block shall be attached except where pedestrian ways are located between buildings.
27 28 29 30 31 32 33 34 35 36 37 38	(F)	requin apply setbac adjace 1403(shall parkin to an requin requin	ring and Screening. The buffering and screening rements of Section 5-1400-1403 of this Ordinance shall not within the PD-CV district, except for the building and parking eks under Section 5-1403(B) and the road corridor buffer ent to any existing or planned arterial road under Section 5- B). The buffer and screening requirements of Section 5-1404 not apply within the PD-CV district. with the exception of ng lot landscaping in Section 5-1413, and, properties adjacent ey existing or planned arterial road that must meet the rement in Section 5-1406(E)(2). Notwithstanding this rement, buffering Buffering and screening standards-may be red as part of the special exception process.
39 40			Major Roads. Unless otherwise specified in this section, the <u>access requirements</u> of Section <u>5-9001-205(A)</u> shall apply.

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3 4	Section 4-1000	PD-TREC Planned Development - Transit Related Employment Center.
5	4-1006	Lot Requirements.
6		(A) Yards.
7 8 9 10 11		(1) Front. No minimum. In the Inner Core, buildings shall be located a maximum of 10 feet from the front property line; however, if the building fronts on a plaza or courtyard open to the public, the maximum front yard shall be 25 feet per Section 4-1012(A)(1).
12		(2) Side. No requirement.
13		(3) Rear. No requirement.
14		(B) Other Yard Requirements.
15 16 17 18 19 20 21		 (1) Yards Adjacent to Roads. Notwithstanding Unless greater setbacks are required under Section 5-900 (A)(2) and (C), 5-1403(B), no building shall be permitted closer than one hundred (100) feet to the right-of-way of any arterial road unless a component of an "urban deck," as defined by Article 8. No parking shall be located within fifty (50) feet of the right-of-way of any arterial road.
22 23 24 25 26 27 28 29 30	4-1017	Street Trees. Trees shall be planted <u>on both sides of the street</u> at a density of one tree per twenty five (25) linear feet along all areas dedicated for use for vehicular access. Such trees shall have a minimum caliper of 1 (one) inch and a height at maturity of 15 (fifteen) feet or more. If in the opinion of the Planning Commission at time of review of the Final Development Plan, upon the advice of the County Urban Forester/Arborist, street trees will not survive in a given location, substitute plantings or substitute locations may be provided.
31 32 33	4-1019	Development Setback and Access from Major Roads. The lot access requirements of Section 1-205(A) and the building and parking setback requirements of Section 5-9005-1403(B) shall be observed.
34 35 36 37		(A) In the Inner Core, buildings shall be located at a maximum of 10 feet from the front property line; however, if the building fronts on a plaza or courtyard open to the public, the maximum setback shall be 25 feet per Section 4-1006 (A) (1).

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2	Section 4-1100	PD-T	RC-Transit Related Center
3	4-1106	Lot R	equirements.
4 5		(A)	Size. No minimum, except 2,400 square feet for single-family detached and 1,600 square feet for single family attached dwellings.
6		(B)	Width. No minimum.
7		(C)	Depth. No minimum.
8		(D)	Yards.
9			(1) Front. No minimum.
10			(2) Side. No requirement.
11			(3) Rear. No requirement.
12		(E)	Other yard requirements.
13 14 15 16 17 18 19			(1) Adjacent to roads. Unless greater setbacks are required under Notwithstanding the provisions of Section 5-900 (A)(2) and (C),5-1403(B), no building shall be permitted closer than one hundred (100) feet to the right-of-way of any arterial road unless a component of an "urban deck" as defined in Article 8. No parking shall be located within fifty (50) feet of the right-of-way of any arterial road.
20	4-1118	Land	scaping, Buffering and Screening.
21 22 23 24		<u>(A)</u>	Landscaping, buffering, and screening shall be used to screen outdoor storage, areas for collection of refuse, loading areas and parking from streets and residential uses in accordance with Section <u>5-1406</u> .
25 26 27 28 29 30 31 32 33 34		(<u>A)(B</u>	For individual lots within the PD-TRC district that are developed in accordance with a proffered Concept Development Plan, the buffer <u>yard and screening</u> requirements of Section 5-1400-1404 and the parking area landscaping and screening requirements of Section 5-1407 shall not be applicable between uses on adjacent lots developed within the center or between uses within the PD- TRC district and differently zoned properties. <u>Only the road</u> corridor buffer requirements of Section 5-1403 for specifically listed roads, other arterial roads, and other major collector roads shall apply.

4-1119	of no dedica calipe If in th Final Forest	less that ated for r of 1 (he opin Develo ter/Arb	Trees shall be planted <u>on both sides of the street</u> at a density in one tree per twenty-five (25) linear feet along all areas ruse for vehicular access. Such trees shall have a minimum one) inch and a height at maturity of 15 (fifteen) feet or more. ion of the Planning Commission at time of review of the pment Plan, upon the advice of the County Urban orist, that street trees will not survive in a given location, antings or substitute locations may be provided.
4-1120	<u>requir</u>	ements	t Setback and Access from Major Roads. The lot access of Section 1-205(A) and the building and parking setback of Section 5-9005-1403(B) shall be observed.
Section 4-1200	PD-R	V Plan	nned Development - Rural Village.
4-1212	Use L	imitati	ions.
	(A)		ff-street parking shall be permitted in front yards within the ge Center.
	(B)	Automobile service stations shall be limited to one (1) per block and one (1) per street intersection.	
	(C)	No workplace use shall be permitted which, because of its nature, location, or manner of operation, is dangerous or noxious because of odor, fumes, gas, smoke, emission of particulate matter or effluent, or for other reasons.	
	(D)	Outdo	oor Storage.
		(1)	No storage of any kind shall be permitted within any front yard.
		(2)	Underground bulk storage of gasoline or petroleum products shall not be permitted, except for automobile service stations
			or as incidental to manufacturing and research and
			development operations or the servicing of company owned or leased vehicles within enclosed areas defined in (3)
			below.
		(3)	Outdoor storage of materials, equipment, and vehicles shall be-permitted within enclosed areas which are composed of mixed wood, masonry walls, plantings, or other suitable barriers approved by the Zoning Administrator, as required by Section 5-1400 of this Ordinance screened in accordance with Section 5-1406.
	4-1120 Section 4-1200	of no dedica calipe If in ti Final Foresi substi 4-1120 Devel requir requir Section 4-1200 PD-R 4-1212 Use L (A) (B) (C)	of no less tha dedicated for caliper of 1 (If in the opin Final Develop Forester/Arb substitute plat 4-1120 Developmen requirements requirements Section 4-1200 PD-RV Plan 4-1212 Use Limitati (A) No o Villag (B) Auton one ((C) No w locati of oc efflue (D) Outde (1) (2)

1 2		(4)		materials must be stored in a closed container. The g of waste materials is prohibited.
3				
4	4-1213 Lot :	and Bui	lding Re	quirements.
5	(A)	Villa	ge Conse	rvancy and Satellite Conservancy Subdistricts.
6		(1)	Averag	ge Lot Size. Fifty (50) acres minimum.
7 8		(2)		um Lot Size. Ten (10) acres, exclusive of major ain and steep slopes.
9		(3)	Minim	um Lot Width. 300 feet.
10		(4)	Length	Width Ratio. 9:1 maximum.
11		(5)	Perime	eter Yard. Sixteen (16) feet minimum.
12 13		(6)		Tum Lot Coverage. 8% for Single Family ntial and 25% for all other uses.
14 15		(7)		ng Height. Three (3) stories or forty (40) feet um whichever is less.
16	(B)	Villa	ge Cente	r - Residential Area.
17		(1)	Single-	Family Detached Lots.
18 19			(a)	Lot Size. 5,000 sq. ft. minimum, exclusive of major floodplain and steep slopes.
20			(b)	Lot Width. 60 feet minimum.
21			(c)	Length/width ratio. 5:1 maximum.
22			(d)	Front yard. Six (6) feet minimum and thirty (30)
23				feet maximum for lots 10,000 square feet in size or
24				less. Twenty-five (25) feet minimum and sixty (60)
25 26				feet maximum for lots greater than 10,000 square feet in size. (See Figure 6B)
27			(e)	Side yard. Eight (8) feet minimum.
28			(f)	Rear yard. Sixteen (16) feet minimum.
29			(a)	Detached garages located at the rear of a lot and
29 30			(g)	attached to a similar garage on a contiguous lot may

1 2 3 4			be located within the side yard setback and within six (6) feet of the rear property line. No minimum rear yard shall be required for garages which are accessed from the front of a lot.
5 6 7 8 9		(h)	Front Sidewalk Width. Six (6) feet minimum, which may include a minimum four (4) foot wide sidewalk and planting strip of two (2) feet at the curb. Sidewalks shall be provided on both sides of the street.
10		(i)	Lot Coverage. 40% maximum.
11 12		(j)	Building Height. Three (3) stories or 40 feet maximum whichever is less.
13	(2)	Single	-family attached Lots.
14 15		(a)	Lot Size. 1,600 square feet minimum, exclusive of major floodplain and steep slopes.
16 17		(b)	Lot Width. Sixteen (16) ft. minimum; 48 ft. maximum.
18 19 20		(c)	Length/Width Ratio. 9:1 maximum for lots less than 32 feet in width; 5:1 maximum for lots of 32 feet in width or greater.
21 22		(d)	Front Yard. Four (4) feet minimum; sixteen (16) feet maximum. (See Figure 6A)
23		(e)	Lot Coverage. 70% maximum.
24 25 26 27 28		(f)	Front Sidewalk Width. Six (6) feet minimum, which may include a minimum four (4) foot wide sidewalk and planting strip of two (2) feet at the curb. Sidewalks shall be provided on both sides of the street.
29 30		(g)	Building Height. Three (3) stories or forty (40) feet maximum, whichever is less.
31 32 33 34 35		(h)	Access. Off-street parking for single family attached dwellings of less than 32 feet frontage shall be provided at the rear of the lot and shall be accessed either from an alley or from a side street. This requirement may be modified if a block of parking is

1 2			provided within 200 feet of the townhouse units served.
3	(3)	Green	s, Parks and Squares.
4 5 6		(a)	Lot Size. 20,000 sq. ft. minimum for the main village green minimum; 10,000 sq. ft. minimum for other greens, parks and squares. (See Figure 4)
7 8 9		(b)	Lot Width. 96 ft. minimum for the main village green minimum; 64 ft. minimum for other greens, parks and squares.
10		(c)	Length/Width Ratio. 5:1 maximum.
11	(4)	Comn	nercial/Workplace Lots.
12 13		(a)	Lot Size. 1,600 square feet minimum, exclusive of major floodplain and steep slopes.
14		(b)	Lot Width. Sixteen (16) feet minimum; forty-eight
15			(48) feet maximum for attached buildings and one
16 17			hundred twenty (120) feet maximum for detached buildings.
18		(c)	Length/Width Ratio. 9:1 maximum.
10		(L)	Front Vand & Fritzense A manimum front read
19 20		(d)	Front Yard & Entrance. A maximum front yard
20 21			setback of sixteen feet for all commercial uses except day care facilities. The maximum front yard setback
22			for daycare facilities is 50 feet. A minimum of 60%
23			of buildings located on a single block shall share a
24			common set back. The principal entrance of a
25			commercial building shall be from the front.
26		(e)	Side Yard. Storefront buildings fronting on the
27			same street and located on the same block shall be
28			attached except where pedestrian ways are located
29			between buildings.
30		(f)	Lot Surface Coverage. 70% maximum.
31 32		(g)	Building Height. Three (3) stories or 40 feet maximum, whichever is less.
33		(h)	Front Sidewalk. Eight (8) feet minimum width,
34		()	which may include a minimum six (6) foot wide
35			sidewalk and planting strip of two (2) feet wide at the

1 2 3		curb. (See Figure 7A) Open colonnades constructed over a sidewalk which adjoins storefront buildings may be permitted subject to an appropriate easement.
4 5 6 7 8	(i)	Alleys. Off-street parking for storefront buildings may be provided at the rear of the lot and may be accessed either from an alley or from a side street perpendicular to that on which the townhouses enfront.
9	(j)	Pedestrian Access.
10 11 12 13 14 15 16 17 18		(i) Temporary paths shall be constructed, extending across undeveloped land designated for commercial development and linking other portions of the Village Center, by the developer at the same time as adjoining areas are developed. Such paths shall be a minimum of three (3) feet in width, constructed of gravel, sand, woodchips, or other similar type materials.
19 20 21 22		(ii) Paths linking land designated for commercial development with residential areas shall be constructed concurrent with development of the individual commercial lots.
23 24 25	(k)	Parking. Off-street parking for commercial and workplace lots shall not be provided in the front of the lot.
26	(1)	Buffering.
27 28 29 30 31 32 33 34		(i) <u>Between</u> Village Workplace Areas <u>and</u> residential areas, shall have a continuous buffer, a minimum of fifty (50) feet minimum in width <u>that</u> meets the plant unit requirements for a Buffer Yard Type B under , planted with a Type 2 Buffer pursuant to Section <u>5-1414(B5-1404(D)</u> shall be provided., adjacent to residential areas.
35 36 37 38 39 40		 (ii) <u>Between</u> Village Workplace Areas <u>and</u> <u>public streets and open space areas</u>, <u>shall</u> <u>have</u> a continuous buffer<u>a minimum of</u>, thirty (30) feet <u>minimum</u> in width <u>that meets</u> <u>the plant unit requirement for a</u>, <u>planted with</u> <u>a Type 2</u>-Buffer <u>Yard Type B under pursuant</u>

1 2 3				to-Section 5-1414(B), 5-1404(D) shall be provided.adjacent to public streets and open space areas.
4 5 6 7			(iii)	Workplace lots used for open storage shall have either an additional fifty (50) foot wide planted buffer (for a total width of 100 feet if located on a workplace subdistrict boundary)
8 9				or a masonry wall no less than six (6) feet minimum in height.
10				
11	Section 4-1300	PD-A	AAR Planned Devel	lopment - Active Adult/Age Restricted
12 13 14 15	4-1311	reside <u>and tl</u>	ential development, th	ad Access from Major Roads. In designing the lot access requirements of Section 1-205(A) king setback requirements of Section $\frac{5-9005}{5-9005}$
16				
17	Section 4-1350			
17	Section 4-1550	PD-M	IUB Planned Develo	opment-Mixed Use Business
18	4-1355		IUB Planned Develo nd Building Require	
18 19 20			nd Building Require Size. No minimum Family Detached I	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum,
18 19 20 21 22		Lot a	nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 Im exclusive of major floodplain. No lot for a
18 19 20 21		Lot a	nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet
18 19 20 21 22 23		Lot a	nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu Single-Family Deta	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet
18 19 20 21 22 23 24		Lot an (A)	nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu Single-Family Deta exclusive of major : Yards. (1) Front. See S	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain.
18 19 20 21 22 23 24 25 25 26 27		Lot an (A)	 nd Building Require Size. No minimum Family Detached II and the lot size for S square feet minimu Single-Family Deta exclusive of major Yards. (1) Front. See S roads; and 0 	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 im exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain.
18 19 20 21 22 23 24 25 25 26 27 28		Lot an (A)	 nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu Single-Family Deta exclusive of major Yards. (1) Front. See S roads; and 0 roads. The r 	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain.
18 19 20 21 22 23 24 25 25 26 27		Lot an (A)	 nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu Single-Family Deta exclusive of major Yards. (1) Front. See S roads; and 0 roads. The r where a course 	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 im exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain.
 18 19 20 21 22 23 24 25 26 27 28 29 		Lot an (A)	 nd Building Require Size. No minimum Family Detached II and the lot size for S square feet minimu Single-Family Deta exclusive of major Yards. (1) Front. See S roads; and 0 roads. The r where a courspace, that 	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain.
18 19 20 21 22 23 24 25 25 25 26 27 28 29 30		Lot an (A)	 nd Building Require Size. No minimum Family Detached I and the lot size for S square feet minimu Single-Family Deta exclusive of major Yards. (1) Front. See S roads; and 0 roads. The r where a cours space, that adjacent to the 	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain. Section <u>5-9005-1403(B)</u> for arterial and collector feet minimum and 30 feet maximum from other maximum front yard can be expanded to 50 feet rtyard, plaza, terrace, or other common gathering is a minimum of 300 square feet, is provided
 18 19 20 21 22 23 24 25 26 27 28 29 30 31 		Lot an (A)	 nd Building Require Size. No minimum Family Detached II and the lot size for S square feet minimu Single-Family Deta exclusive of major Yards. (1) Front. See S roads; and 0 roads. The r where a cours space, that adjacent to t (2) Side. 0 feet yard abutti 	ements. lot size is required, except the lot size for Single- Dwellings shall be 2,500 square feet minimum, Single-Family Attached Dwellings shall be 1,600 um exclusive of major floodplain. No lot for a ached Dwelling shall exceed 5,000 square feet floodplain. Section <u>5-9005-1403(B)</u> for arterial and collector feet minimum and 30 feet maximum from other maximum front yard can be expanded to 50 feet rtyard, plaza, terrace, or other common gathering is a minimum of 300 square feet, is provided the front property line.

1 2 3			(3)	Rear . 0 feet minimum, except 15 feet minimum for a rear yard abutting a lot allowing Single-Family Attached Dwellings or Single-Family Detached Dwellings.
4	4-1358	Use Li	imitatio	ons.
5 6		(A)	-	Requirements . All new utility lines shall be placed ground.
7		(B)	Buffer	ring and Screening.
8 9 10 11 12			(1)	No loading areas or refuse collection areas shall be located closer than 100 feet from an agricultural zoning district or closer than 50 feet from a residential district. No parking areas shall be located closer than 50 feet to an agricultural zoning district or closer than 30 feet to a residential district.
13 14 15 16 17 18			(2)	Loading areas and refuse collection areas shall be screened from view as seen from adjoining streets and residential areas. Refuse collection areas separated from building walls and placed in parking areas shall also be landscaped and buffered from the view of adjoining streets and residential areas.
19 20 21 22 23 24 25 26 27 28			(3)	The buffering and screening-buffer yard requirements of Section 5-1400-1404 and the parking area landscaping and screening requirements of Section 5-1407 shall not be applicable between uses on adjacent lots developed within the PD-MUB district or a different district subject to the same proffered Concept Development Plan. Only the road corridor buffer requirements of Section 5-1403 for specifically listed roads, other arterial roads, and other major collector roads shall apply.
29	Section 4 2200	Dauta	10 00	(Couvidor Office)
30	Section 4-2300	Koute	28 CO	(Corridor Office).

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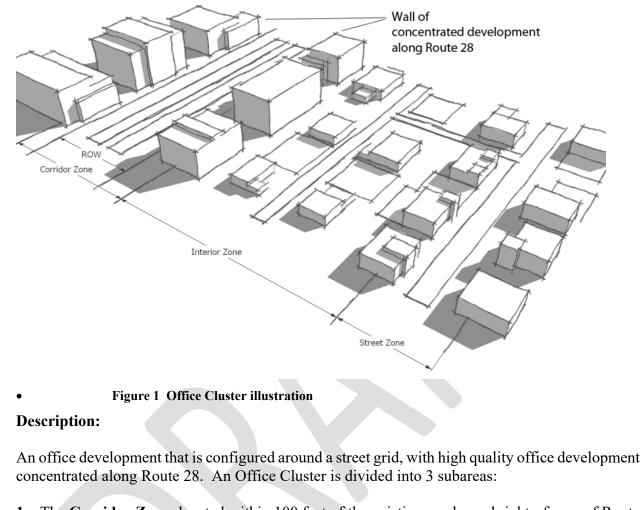
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4-2305 Office Cluster Alternative Method.



- 9 1. The Corridor Zone, located within 100 feet of the existing or planned right-of-way of Route
 28.
- The Street Zone, including all areas outside of the Corridor Zone located within 50 feet of any other public street other than Route 28.
- 13 **3.** The Interior Zone, including all areas outside of the Corridor Zone or Street Zone.

Mix of Uses: The site plan shall designate uses that comply with the following land use mix	Minimum Building Square Feet Required	
ratios		Square Feet Permitted
Office/Research & Development	60%	100%
Retail & Services*	0%	10%
Flex	0%	10%

Retail and services do not include showrooms that are accessory to flex buildings and
located entirely within the flex building.

Lot <u>& and</u> Building Placement Standards:

Route 28

Lot & and Building Placement 1. Frontage Buildout (minimum).

Building walls shall occupy at least 60% of the lot width at the maximum **Corridor** Setback lines. **Front** building walls shall occupy at least 50% of the lot width at the maximum **Street** Setback lines.

2. Corridor Setback.

50 feet (maximum) from the planned right-ofway. This setback <u>shall</u> supersedes <u>the</u> <u>building and parking setback requirements of</u> Section <u>5-900,5-1403(B)</u>. <u>Road corridor</u> <u>buffers in accordance with Section 5-1403(B)</u> <u>shall be required. but is subject to Section 5-1400, Buffer and Screening.</u> No Pedestrian Through Zone or Planting/Furniture Zone is required.

1 Section 4-2400 Route 28 PD-CM (Planned Development - Corridor Mixed-Use).

2 **4-2406** Office Center Alternative Method.

Figure 2 Corridor Setback

Max front setback

= 50'

Front

building walls

I of

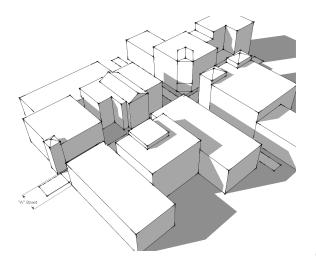
Width

3 Description:

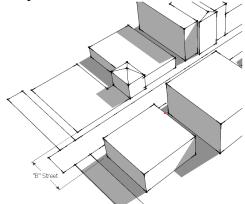
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A mixed-use, primarily office or employment-based development, that is configured around a
street grid. This type of development has a mix of non-residential and residential uses. The
Center's design is urban and pedestrian-oriented. An Office Center shall include at least 50 and
no more than 90 Buildable Acres. To implement the County's design objectives while providing
market flexibility, a CDP for an Office Center shall designate "A" Streets and "B" Streets, as
follows:

- 1. An "A" Street is a street with frontage that is restricted to building types and uses that promote pedestrian activity, and which benefit from pedestrian and/or transit access. A street shall be deemed to be classified an "A" Street unless otherwise designated on the CDP.
- 2. A "B" Street is a street that permits front-loaded surface parking, retail and service uses, and single-story buildings. A "B" designation may be considered an interim designation as part of a phased development plan. The aggregate length of the "B" Streets on an application shall not exceed 50



linear feet per Buildable Acre subject to the application, and shall not exceed thirty-five percent (35%) of the total length of all streets within the proposed development.



Mix of Uses: The concept development plan shall designate uses that comply with the following land use mix ratios -	Minimum Square Feet Required	Maximum Square Feet Permitted
Office/Research & Development	55%	70%
Retail & Services	10%	20% Full-Service Hotels are not counted toward this limit
High Density Residential (this requirement is exempt from Section 1-207)	15%	25%
Public and Civic (see Sections 4-2407 and 4-2706 for public and civic space standards)	5%	No maximum

1 Building Standards:

- 2
- Orientation. Buildings and their principal entrances shall face streets or adjacent Plazas,
 Squares, or Greenways (see classification system in Section 4-2706).

5 2. Street Setback / Streetside Standards.

- 6 **a.** Minimum and maximum setbacks for "A" and "B" Streets are as set out in the table below.
- b. Within a Corridor Zone, the maximum setback is 50 feet from the existing or planned right-of-way. This setback <u>shall</u> supersedes <u>the building and parking setback requirements of</u>
 Section 5-9005-1403(B)., <u>Road corridor buffers in accordance with Section 5-1403(B)</u>
 <u>shall be required. but is subject to Section 5-1400</u>, <u>Buffer and Screening.</u> No Pedestrian Through Zone or Planting/Furniture Zone is required.
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13 Section 4-2700 Development Standards for Route 28 Corridor Districts.

- 14 **4-2701** Applicability.
 - (A) These development standards apply to any property that elects to proceed under a Route 28 Corridor Planned Development or Optional Overlay district. (See Sections 4-2201(D) and 4-2201(E) for applicability and Section 4-2900 for "election to waive" procedures.)
- 19 (B) If an application is filed under this Division D: Route 28 Corridor:
 - (1) Unless otherwise provided in this Division D, the use, building setback, height, parking, landscaping, and other standards of this Ordinance apply to any Standard or Alternative Method of development (including, without limitation, Section <u>5-9005-1403(B)</u>), and
 - (2) After an election is filed (see Section 4-2902), the property owner is subject to all requirements of the Revised 1993 Zoning Ordinance that are not otherwise regulated by this Division D.

28 4-2702 General Standards.

- 29 (A) Applicability. This sub-section applies to:
 - (1) Any rezoning to a PD-CM District, and
 - (2) Any Standard or Alternative Method of development.
- 32 (3) Any other development within a Route 28 Corridor district that requires subdivision plat, site plan, or special exception approval.
- 34 (B) Outdoor Storage / Refuse Collection / Loading Area.

1 2		(1)	Areas shall	s used for outdoor storage, refuse collection, and loading area be:	
3			(a)	Screened by a building wall, or	
4					
5			(b)	Screened by a wall consisting of brick, masonry, or primary	
6 7				materials that are compatible with those used by the principal buildings on the site.	
8	(C)	Trans	sportat	ion and Pedestrian Amenities	
9 10		(1)		evelopment proposals shall conform to a generally rectilinear system of streets.	
11 12 13		(2)		lopment proposals shall include access points to the adjacent erties that allow for a continuation of the existing street ork.	
14 15	(D)	•	y Line ground	•	
16	(E)	Land	scaping	g (Alternative Method Only).	
17		For purposes of this subsection, "landscaping" refers to the buffer and			
18		screer	ing re	quirements of Section 5-1400. For Under any Alternative	
19				development, for individual lots that are developed in	
20 21				vith a Site Plan or Concept Development Plan <u>the buffer yard</u> of Section 5-1404 and the parking area landscaping and	
22		-		quirements of Section 5-1407 shall not apply between non-	
23			-	ses located within the Route 28 Corridor Plan area. Only the	
24				buffer requirements of Section 5-1403 for specifically listed	
25				arterial roads, and other major collector roads shall apply	
26					
27			are n	ot subject to landscaping (except for the requirements of	
28				ons 5-1403(A)-(D), 5-1404, 5-1406(E)(2), 5-1410 through 5-	
29			<u>1413</u>		
30			(a)	between uses on adjacent lots developed within the Corridor,	
31				Street or Interior zones uses, or	
32			(b) —	within the zoning district and differently zoned properties	
33				that are located within the Route 28 Corridor Plan area.	
34		(2)	are s	ubject to landscaping if they are adjacent to a residentially	
35			zonec	l, residentially developed, or residentially planned portion of a	
36			plann	ed development zoning district.	

1	4-2708	Site Standards.			
2 3	(A)	Applicability . This section applies to the Alternative Method of development in the CO, PD-CM and CB districts.			
4	(B)	Block	S .		
5		(1)	This s	subsection (B) applies	to:
6 7 8			(a)	development sites	nd Custom Campus Alternative Method that are larger than 30 acres. This apply to a Secure Office Campus.
9			(b)	Office Cluster and C	Office Center development sites.
10		(2)	The d	levelopment site shall	be divided into blocks.
11		(3)	Block	c length within the dev	velopment area shall not exceed –
12			(a)	600 feet for an Offic	ce Cluster,
13			(b)	800 feet for a Busin	ess or Custom Campus, and
14			(c)	400 feet for an Offic	ce Center.
	(C)	Stre. (1) (2) (3)	Stree Alte deve publ cons Faci Man Stree arran recti	ets interior to an rnative Method elopment may be ic or private, sistent with the lities Standards wal. ets shall be nged in a generally linear grid. ets shall align with ting or planned	Image: Sector of the sector
15			sites		
16 17 18	(D)	located	d interr	hal to a block, or in th	spaces and parking structures shall be e areas outside of the Frontage Buildout dscaping and screening as provided in

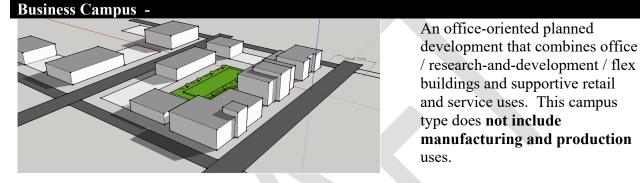
18and separated from a19Section 5-14135-1407.

1 4-2710 Campus Alternative Method.

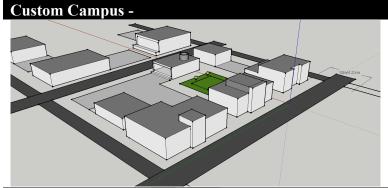
2 **Description:**

- 3 A Campus is an office-oriented development that includes a mix of uses in a park-like setting.
- 4 This section establishes three types of Alternative Method Campus Developments: Business
- 5 Campus, Custom Campus, and Secure Office Campus.

	Mix of Uses:	
Campus type – (the predominant use in each campus type is office and/or research-and- development)	Minimum Square Feet Required	Maximum Square Feet Permitted



Office / Research & Development	75%	100%
Flex / Data Centers	0%	10%
Retail & Services*	0%	10%



An office-oriented planned development -that combines office, research-and-development, and **manufacturing and production** uses.

Office / Research & Development	60%	100%
Manufacturing and Production	0%	10%
Retail & Services*	0%	10%

Definition and Mix of Uses:

	Definition a	nd Mix of Uses:
	Minimum Square Feet Required	Maximum Square Feet Permitted
Secure Office Campus -		
	includes design stand security elements, su setbacks, secured per site access. To use the must demonstrate that and standoff distance	anned development that lards that accommodate ch as greater building rimeters, and controlled his option, the applicant at a secured perimeter es are required for the ve tenants by state or tions.
Office / Research & Development	60%	100%
Retail & Services*	0%	10%
Generally (applicable to all campus types) Flex / Data Centers		all floor area in CO
	 Up to 100% o & Developme Flex uses are r Major Street Z 	f the Office/Research ent allocation in CB not permitted within a Zone. This restriction to Data Centers.
Public & Civic Uses / Parks & Open Spaces	· · · · · · · · · · · · · · · · · · ·	oplicable Optional ct standards (Sections 506)
* Retail and services do not include showrooms that ar located entirely within the flex building.	re accessory to f	lex buildings and
A Campus is divided into 2 or 3 subareas:		
1. The Street Zone includes all areas located within 50 feet of other than Route 28. A Street Zone adjacent to the following Street Zone": George Washington Boulevard, Russell E	g roadways is cor Branch Parkway,	nsidered a " Major Waxpool/Church

- Street Zone": George Washington Boulevard, Russell Branch Parkway, Waxpool/Church
 Road (Route 625), Loudoun County Parkway, Moran Road, Sterling Boulevard, Route 7, and
 Route 606 east of Route 28. The Street Zone does not apply to a Secure Office Campus.
- The Interior Zone, includes all areas outside of the Street Zone other than the Corridor Zone, if applicable.
- If the Campus is adjacent to the Route 28 right of way, a Corridor Zone applies, and is located within 100 feet of the planned right-of-way of Route 28.
- 19

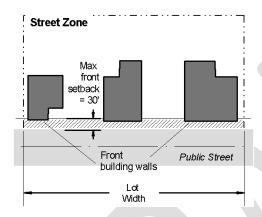
13

16

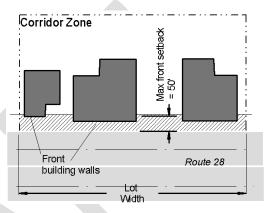
20 [Lot & Building Placement Standards begin on next page]

Lot & Building Placement Standards:

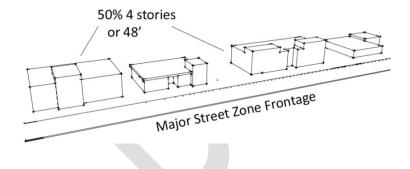
 Street Setback. In the Street Zone - 0 feet (minimum) and 30 feet (maximum). No front setback applies to the Interior Zone. In the Corridor Zone, the setback is 50 feet (maximum) from the planned right-of-way of Route 28. Theseis-setback shall s supersede the building and parking setback requirements of Section 5-9005-1403(B). Road corridor buffers in accordance with Section 5-1403(B) shall be required., but are subject to any landscaping required by any buffer required by section 5-1400.



- 2.1. Frontage Buildout (minimum). In the Street Zone, Front building walls shall occupy at least 50% of the lot width at the maximum Street Setback lines. In the Corridor Zone, building walls shall occupy at least 60% of the lot width at the maximum Corridor Setback lines.
- 3.2. Rear and Side Setbacks are not required.



Building Standards:



- 1. Height. At least 50% of a Major Street Zone frontage setback shall be occupied by buildings that are at least 4 stories or 48 feet in height. If a Corridor Zone is present, the frontage buildout, corridor setback and height standards for the Corridor Zone in Section 4-2305 apply.
- Orientation. In the Street Zone, front building walls shall face streets or adjacent Civic Uses (see classification system in Section 4-2706).
- **3.** Frontage Types. Buildings within the Frontage Buildout of the Street Zone shall use the Frontage Types listed in Section <u>4-2704</u>. Frontage Types are not required in the Corridor Zone.

- 4. Massing / Façade. In the Street Zone, building planes above the fifth story or 60 feet above average finished grade shall be separated by at least 60 feet.
- 5. Open Space Network. Buildings, parking areas and exterior spaces shall be connected by a continuous open space network. The open space network shall include interior paths that link buildings with pedestrian walkways, bikeways, plazas, and trails. The open space network is counted toward the required parks and open space area (section 4-2308(B)).
- **6. Materials.** Building walls that face a Road or Street shall comply with Section 4-2705.

1	Section 5-600			r Specific Uses. The following additional regulations		
2				forth below. These regulations are intended to serve		
3			as the minimum standards for these uses, and are not intended to be in substitution			
4		1		ordinance that may apply, or for additional conditions		
5		• •		nection with special exception or rezoning approvals.		
6			-	the following additional regulations may be modified		
7				in accordance with the provisions of Section 6-1300.		
8				oved by the Board of Supervisors upon a finding that		
9				gulations will achieve an innovative design, improve		
10				ons, preserve the County's historic or archeological		
11		-		ed the public purpose of the existing regulation. No		
12		modification shall	l be grante	ed to any of the underlying zoning district regulations.		
13	5-601			estay, Bed and Breakfast Inn, Country Inn and		
14				al Resorts Establishments. No such use shall be		
15				tial use of the subject property or by change of use of		
16		1 1 7 7		on of one such use to another until a sketch plan or site		
17		- · · · ·		ich proposed new use has been approved and the		
18				t and applicable Fire Prevention Code permits have		
19				blishments may be located in accord with the lists of		
20			-	tion uses for the individual zoning districts subject to		
21		the following crite	eria:			
22		(A) Bed and I	Breakfast	Homestay.		
23		(1) In	tensity/Cł	naracter.		
24 25		(a)		agement. The owner of the premises shall reside on remise and manage the Bed and Breakfast Homestay.		
23			the p	tennse and manage the bed and breakfast nomestay.		
26		(b)	Gues	at Rooms. 1-4 guest rooms.		
27		(c)	Lot S	Size. No minimum lot area.		
28		(d)) Food	Service. The Bed and Breakfast Homestay shall not		
29				in restaurant facilities, but may provide food service		
30				vernight guests or private party attendees, only.		
31		(e)) Priva	ate Parties.		
32			(i)	Private parties for up to 20 attendees, including		
33				overnight guests, may be held daily at the Bed and		
34				Breakfast Homestay.		
35			(ii)	Private parties for more than 20 attendees may be		
36				held up to 10 times per calendar year and shall		
37				require approval of a Building Permit to allow the		
38				structure to be used for such private parties and a		
39				Zoning Permit for each private party. A Zoning		
40				Permit shall be applied for at least thirty (30) days		
41				in advance of each private party. The Zoning		

 1 2 3 4			Permit application shall be accompanied by a copy of the approved Building Permit and proof of any necessary approvals from County agencies, such as the Health Department and Fire Official.
5 6			(f) Hours of Operation. Hours of operation for private parties shall be limited to 7:00 AM to 12:00 midnight.
7	((2)	Landscaping/Buffering/Screening.
8 9 10 11 12 13 14 15 16 17 18 19			(a) <u>Outdoor private party areas shall meet the requirements of Section</u> The use shall comply with the landscaping and screening standards of Section 5-653(A) <u>5-1404(A)(6)</u> to screen outdoor private party areas, regardless <u>of</u> the size of the adjacent property. This requirement The landscaping and screening requirements of Section 5-653(A) may be waived or modified in whole or in part by the Zoning Administrator in <u>accordance with the circumstances listed</u> in Section 5-1409 or under the additional circumstance where the adjacent property owner(s) provides written consent to waive all or a portion of the required landscaping/buffering/screening requirements.
20	((3)	Parking.
21 22			(a) General. Parking and loading for a Bed and Breakfast Homestay shall be provided as required by Section 5-1102.
23 24 25 26 27			Exterior Lighting. Exterior lighting for a Bed and Breakfast Homestay shall be subject to Section $5-652(A)(2)-(3)$ (Exterior Lighting Standards). In addition to the requirements of Section 5-652, the maximum height of pole-mounted exterior lighting shall be 12 feet.
28 29 30 31			Noise. No outdoor music shall be permitted between 11 PM and 10 AM on Friday, Saturday, and any evening preceding a holiday recognized by Loudoun County, and between 10 PM and 10 AM on any other day.
32 33 34 35 36 37			Roads/Access. For any Bed and Breakfast Homestay that is located on a lot which does not have frontage on a publicly maintained road, documentation shall be provided to the Zoning Administrator demonstrating that the private access easement serving such lot may be used to provide access to the establishment.
38	(B)	Bed an	ıd Breakfast Inn.
39	((1)	Intensity/Character.

1 2 3 4 5	(a)	Management. The owner or manager of the premises shall provide full-time management at all times when the Bed and Breakfast Inn is occupied by overnight guests or private party attendees. An owner or manager may live on the premises.
6 7	(b)	Guest Rooms. The number of guest rooms shall not exceed 10.
8	(c)	Lot Area. The minimum lot area shall be 5 acres.
9	(d)	Size of Use. The floor area ratio shall not exceed 0.04.
10 11 12	(e)	Food Service. The Bed and Breakfast Inn shall not contain restaurant facilities, but may provide food service for overnight guests or private party attendees, only.
13	(f)	Private Parties.
14 15 16		(i) Private parties for up to 50 attendees, including overnight guests, may be held daily at the Bed and Breakfast Inn.
17 18 19 20 21 22 23 24 25 26 27 28 29 30		(ii) Private parties for more than 50 attendees, including overnight guests, may be held up to 20 times per calendar year and shall require approval of a Building Permit to allow the structure to be used for such private parties and a Zoning Permit for the private parties. A Zoning Permit shall be applied for at least thirty (30) days in advance of each private party, or at least 30 days in advance of the first private party of the calendar year if the dates of all such private parties are listed. The Zoning Permit application shall be accompanied by a copy of the approved Building Permit and proof of any necessary approvals from County agencies, such as the Health Department and Fire Official.
31 32	(g)	Hours of Operation. Hours of operation for private parties shall be limited to 7:00 AM to 12:00 midnight.
33	(h)	Yard Standards.
34		(i) Parking shall be setback 40 feet from all lot lines.
35	(2) Land	lscaping/Buffering/Screening.
36 37 38 39	(a)	Outdoor private party areas shall meet the requirements of The use shall comply with the landscaping and screening standards of Section $5-653(A)$ <u>5-1404(A)(6)</u> to screen outdoor private party areas, regardless the size of adjacent

1 2 3 4 5 6 7 8			property. The landscaping and screening requirements-of Section 5-653(A) may be waived or modified in whole or in part by the Zoning Administrator in the circumstances listed inaccordance with Section 5-1409 or under the additional circumstance where the adjacent property owner(s) provides written consent to waive all or a portion of the required landscaping/buffering/screening requirements.
9 10		(b)	Parking areas shall comply with the landscaping and screening standards of Section 5-653(B). Section 5-1407.
11 12 13		(c)	New driveways providing access to a Bed and Breakfast Inn use shall not be located within a required buffer yard area except as minimally necessary to access the site.
14	(3)	Parki	ing.
15 16		(a)	General. Parking and loading for a Bed and Breakfast Inn shall be provided as required by Section 5-1102.
17 18 19 20 21	(4)	shall Stand maxir	tior Lighting. Exterior lighting for a Bed and Breakfast Inn be subject to Section $5-652(A)(1)-(3)$ (Exterior Lighting ards). In addition to the requirements of Section 5-652, the num height of pole-mounted exterior lighting, outside of ng areas, shall be 12 feet.
22 23 24 25	(5)	10 Al recog	e. No outdoor music shall be permitted between 11 PM and M on Friday, Saturday, and any evening preceding a holiday nized by Loudoun County, and between 10 PM and 10 AM y other day.
26	(6)	Road	s/Access.
27 28		(a)	The Bed and Breakfast Inn shall comply with the Road Access Standards in Section 5-654.
29 30 31 32 33 34		(b)	For any Bed and Breakfast Inn that is located on a lot which does not have frontage on a publicly maintained road, documentation shall be provided to the Zoning Administrator demonstrating that the private access easement serving such lot may be used to provide access to the establishment.
35 36		(c)	There shall be no more than two points of access for the Bed and Breakfast Inn.
37 38 39 40	(7)	Histor may b	acture existing prior to January 7, 2003, located within an ric Site District or Historic and Cultural Conservation District be used as a Bed and Breakfast Inn and shall be exempt from inimum lot area, yard and floor area ratio requirements

1 2 3 4 5 6	(C) Cour	such s prior	fied above, provided that any expansion or enlargement of structure shall not exceed 15% of the total floor area existing to January 7, 2003, unless a greater expansion is approved by r Special Exception, pursuant to Section 6-1300.
-		•	
7	(1)	Inten	sity/Character.
8 9 10 11 12		(a)	Management. The owner or manager of the premises shall provide full-time management at all times when the Country Inn is occupied by overnight guests or private party attendees. An owner or manager may live on the premises.
13		(b)	Guest Rooms. 1-40 guest rooms.
14 15		(c)	Minimum Lot Area. The minimum lot area shall be 20 acres.
16		(d)	Size of Use.
17			(i) The floor area ratio shall not exceed 0.04.
18 19 20 21			(ii) Any restaurant and indoor Banquet/Event Facility(ies) located on the property shall not exceed 49 percent of the total floor area of the Country Inn.
22		(e)	Food Service.
23 24			(i) Food service may be provided for overnight guests and private party attendees.
25 26 27			 (ii) Full-service restaurant facilities may be provided to the general public in accordance with the individual Zoning District regulations.
28		(f)	Private Parties.
29 30 31			(i) Private parties for up to 100 attendees, including overnight guests, may be held daily at the Country Inn.
32 33 34 35 36			 Private parties for more than 100 attendees, including overnight guests, may be held up to 20 times per calendar year and shall require approval of a Building Permit to allow the structure to be used for such private parties and a Zoning Permit

1 2 3 4 5 6 7 8 9			for the private parties. A Zoning Permit shall be applied for at least thirty (30) days in advance of each private party, or at least 30 days in advance of the first private party of the calendar year if the dates of all such private parties are listed. The Zoning Permit application shall be accompanied by a copy of the approved Building Permit and proof of any necessary approvals from County agencies, such as the Health Department and Fire Official.
10 11		(g)	Hours of Operation. Hours of operation for private parties shall be limited to 7:00 AM to 12:00 midnight.
12		(h)	Yard Standards.
13 14			(i) The Country Inn use shall be setback 100 feet from all lot lines.
15			(ii) Parking shall be setback 100 feet from all lot lines.
16 17 18			 (iii) Outdoor private party areas shall be setback 200 feet from all lot lines or 100 feet from a lot line of a property having a commercial use.
19 20 21		(i)	Accessory Use. A maximum of 10% of the gross floor area of the Country Inn may be composed of accessory day treatment, spa facilities.
22	(2)	Lands	caping/Buffering/Screening.
23 24 25 26 27		(a)	Outdoor private party areas shall meet the requirements of The use shall comply with the landscaping and screening standards of Section $5-653(A)5-1404(A)(6)$ to screen outdoor private party areas from adjacent properties, regardless the size of adjacent property.
28 29		(b)	Parking areas shall comply with the <u>Section 5-1407.</u> landscaping and screening standards of Section 5-653(B).
30 31 32		(c)	New driveways providing access to the Country Inn shall not be located within a required buffer yard area except as minimally necessary to access the site.
33	(3)	Parkir	ıg.
34 35		(a)	General. Parking and loading for a Country Inn shall be provided as required by Section 5-1102.

 1 2			maximum height of pole-mounted exterior lighting, ou parking areas, shall be 12 feet.	tside of
3 4		(5)	Noise. No outdoor music shall be permitted between (midnight) and 7 AM.	12 AM
5				
6				
7		(6)	Roads/Access.	
8 9			(a) The Country Inn shall comply with the Road Standards in Section 5-654.	Access
10 11 12 13 14 15			(b) For any Country Inn that is located on a lot which a have frontage on a publicly maintained documentation shall be provided to the Administrator demonstrating that the private easement serving such lot may be used to provide a the establishment.	road, Zoning access
16 17			(c) There shall be no more than two points of access for of the Country Inn.	or guests
18 19 20 21 22 23 24 25		(7)	A structure existing prior to January 7, 2003, located w Historic Site District or Historic and Cultural Conservation may be used as a Country Inn and shall be exempt f minimum lot area, yard and floor area ratio requirements s above, provided that any expansion or enlargement structure shall not exceed 15% of the total floor area existi to January 7, 2003, unless a greater expansion is appro- Minor Special Exception, pursuant to Section 6-1300.	District rom the pecified of such ing prior
26 27	(D)		Retreats and Resorts. Rural retreats and rural resorts shall e following standards.	comply
28 29 30 31		(1)	Parcel Size. The minimum lot area of rural resorts and shall comply with Section 5-601(D)(8)(a), except when within the buffer area of a Planned Development-Rural (PD-RV) district.	located
32 33 34 35 36 37 38		(2)	Separation Requirement. When not located within a Development-Rural Village (PD-RV) district, rural retreate be appropriately sited so as not to infringe on the character existing village. At a minimum, rural retreats shall be located one (1) mile from the boundaries of an existing Conservation Overlay District or an existing PD-CV or zoned parcel.	ats shall er of any ocated at Village

(3) **Setbacks.** All new buildings, active recreational areas, parking, and lighted areas shall be set back a minimum of 200 feet from adjacent properties.

- (4) Access. All rural retreats and resorts shall comply with the road access standards in Section 5-654.
- (5) **Water and Sewer.** The establishment shall be served by public water and sewer if located in a PD-RV district. Otherwise, the establishment shall be served by a communal water system and a communal watewater collection and treatment system. Communal water and sewer systems may be located within the open space.
- (6) **Open Space.** A minimum of 75% of the site shall remain as open space. Recreational uses customarily incidental and subordinate to the rural resort or retreat permitted in the open space area may include: swimming pools and related facilities, boating facilities, tennis and other sports courts, equestrian facilities, picnic areas, golf courses and related facilities, ballfields, children's play equipment and passive recreation facilities. Driveways and parking areas supporting these recreational facilities may also be located in the open space area.
- (7) May be Open to Public. These establishments may be open to the general public for patronage. A Rural Retreat or Rural Resort shall be entitled to treatment as an Event Facility pursuant to Section 5-642 by Minor Special Exception.
- (8) Additional Standards for AR and TR Districts. In the AR and TR districts, rural retreats and resorts shall comply with the following additional requirements in addition to the general standards identified above. Where there is a conflict between these standards and the general standards controlling the development of rural resorts and retreats, these standards shall control.
 - (a) **Intensity/Character.** The minimum lot area shall be as follows.

Use	Size of Lot (Minimum)	Nos. of Guest Rooms
Level I – Rural	40 acres	Up to 20 rooms
Retreat small scale		
Level II – Rural	60 acres	21-40 rooms
Retreat medium scale		
Level III –Rural	80 acres	41-60 rooms
Retreat large scale		
Level I – Rural Resort	100 acres	61-80 rooms
small scale		
Level II – Rural	120 acres	81-100 rooms
Resort medium scale		

		Use	e Size of Lot Nos. of Guest (Minimum) Rooms
		Leve	el III –Rural 150 acres 101-120 rooms rt large scale
		Mor	te than 120 rooms requires special exception approval pursuant ection 6-1300
1			
2	(b)	Size o	of Use.
3 4		(i)	The restaurant and Banquet/Event Facilities, and
5			conference and training facilities shall be less than fifty (50) percent of the total floor area of the rural
6			retreat or resort.
7 8		(ii)	Outdoor storage related to the rural retreat or resort facilities shall be permitted.
9		(iii)	The floor area ratio shall not exceed 0.04.
10 11	(c)	Yard follow	Standards. The minimum required yards shall be as vs:
12 13		(i)	Level I-Rural Retreat: 125 feet minimum from all lot lines.
14 15		(ii)	Level II-Rural Retreat: 200 feet minimum from all lot lines.
16 17		(iii)	Level III-Rural Retreat: 250 feet minimum from all lot lines.
18 19		(iv)	Level I-Rural Resort: 300 feet minimum from all lot lines.
20 21		(v)	Level II-Rural Resort: 350 feet minimum from all lot lines.
22 23		(vi)	Level III-Rural Resort: 375 feet minimum from all lot lines.
24	(d)	Land	scaping/Buffering/Screening.
25 26 27		(i)	The use shall comply with the landscaping and screening standards of Section $5-653(A)$. 5-1404(A)(6).
28 29 30		(ii)	Parking areas shall <u>comply with Section 5-1407.be</u> screened to comply with the standards of Section 5- 653(B).

1 2 3	 (iii) Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
4	(e) Roads/Access.
5 6	(i) The rural retreat or resort shall comply with the road access standards in Section 5-654.
7 8 9 10	 (ii) There shall be no more than two points of access to a rural retreat or resort. This requirement shall not preclude an additional access for emergency vehicles only.
11	(f) Parking.
12 13	(i) General. Parking and loading shall be provided as required by Section 5-1102.
14 15 16	(ii) Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
17 18 19	(g) Exterior Lighting Standards. All exterior lighting shall comply with the standards of Section 5-652(A) (Exterior Lighting Standards).
20	(h) Noise. Outdoor music shall not be allowed after 11:00 PM.
21 22 23	5-602 Tenant Dwellings. Tenant dwellings may be located in the A-3, A-10, TR, CR and JLMA districts, in accord with the list of permitted and special exception uses for the individual zoning districts, subject to the following additional criteria:
24	(A) Tenant Dwellings.
25	(1) All Parcels Except Open Space Parcels.
26 27	(a) One (1) tenant dwelling shall be permitted on a parcel with an area of ten (10) acres or more.
28 29 30	(b) One additional tenant dwelling shall be permitted for each twenty-five (25) acres of a parcel in excess of the minimum area of ten (10) acres.
31 32 33 34 35	(c) Tenant Dwellings for Seasonal Labor/Special Exception. In addition to those structures permitted under Section 5-602(A)(1)(a) and (b) above, additional tenant dwellings for seasonal labor may be permitted by special exception.

ĺ			
1 2 3		(2)	Open Space Parcels. Tenant dwelling on open space parcels shall be permitted only in the A-3, A-10, and TR districts, subject to the following criteria:
4 5			(a) One (1) tenant dwelling shall be permitted on a parcel with an area of twenty-five (25) acres or more.
6 7	(B)	Gener: criteria	al Standards. Tenant dwellings shall meet the following additional
8 9		(1)	Screening. Portable dwellings shall be screened from view from public roads and neighboring properties.
10 11 12 13 14 15		(2)	On Internal Roads/No Direct Access to Public Roads. Structures for multi-family dwelling units shall be accessed by internal roads, shall not have direct access to public roads, and shall be screened from public roads and neighboring properties in accord with the landscaping and buffering requirements for multi- family dwellings.
16 17 18		(3)	Separate Dwelling. For the purposes of 5-602(A)(1)(a) and (b) above, each unit of a multiple dwelling structure shall constitute a separate tenant dwelling.
19 20		(4)	Home Occupations. Occupants of tenant dwellings may conduct home occupations subject to Section 5-400.
21 22		(5)	Size of Tenant Dwelling. No tenant dwelling unit shall exceed 2,500 square feet in floor area.
23 24 25		(6)	Sanitary and Bathing Facilities. All tenant dwelling units shall have indoor sanitary, cooking, and bathing facilities, consistent with the requirements of the Uniform Statewide Building Code.
26 27	(C)		or Lighting Standards. All exterior lighting shall comply with the ds of Section 5-652(A) (Exterior Lighting Standards).
28	(D)	Parkir	ıg.
29 30		(1)	General. Parking and loading shall be provided as required by Section 5-1102.
31 32		(2)	Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
33	(E)	Lands	caping/Buffering/Screening.
34 35		(1)	The use shall comply with the landscaping and screening standards of Section $5-\frac{653(A)}{1404(A)(6)}$.

- 1 (2)Parking areas shall comply with Section 5-1407. be screened to comply with the standards of Section 5-653(B). 2 3 (F) A structure existing prior to January 7, 2003, that is: 1) located within a County Historic Site (HS) District or Historic and Cultural Conservation 4 5 (HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing 6 in the Virginia Landmarks Register (VLR) or the National Register of Historic Places (NRHP); or 3) listed or eligible for listing as a contributing 7 resource to a VLR or NRHP listed or eligible Historic District, may be 8 9 used as a Tenant Dwelling and shall be exempt from the parcel area for the first tenant dwelling and floor area requirements specified above, 10 provided that any expansion or enlargement of such structure shall not 11 exceed 15% of the total floor area existing prior to January 7, 2003. 12 Documentation shall be provided to the Zoning Administrator 13 demonstrating that the Virginia Department of Historic Resources has 14 confirmed the listing or eligibility of structures. 15 16 5-603 Farm Markets. Farm Markets may be located in accord with the lists of permitted and special exception uses for the individual zoning districts, subject to 17 the following additional provisions: 18 19 (A) Except as provided in subsection F below, a minimum of 25% of the products offered for sale must be derived directly from agricultural, 20 horticultural, aquacultural, or animal husbandry products produced on site 21 22 or on other property in Loudoun County owned or leased by the operator 23 of the Farm Market. An annual report verifying this percentage shall be 24 submitted to the Zoning Administrator upon request. A Farm Market shall 25 be located on the site of ongoing agricultural, horticultural or aquacultural 26 activity unless otherwise provided elsewhere in the Zoning Ordinance. 27 **(B)** Farm Markets shall be located on a hard surfaced Class I or Class II road 28 having a minimum paved width of eighteen (18) feet. The entrance shall 29 have safe sight distance and may be required to have right and left turn 30 lanes as determined by the Virginia Department of Transportation. 31 (C) Sales area for accessory products shall be limited to ten (10) percent of the total area devoted to sales. The calculation of total sales area shall include 32 33 areas devoted to the display of items for sale. 34 (D) Permitted accessory products include pottery, baskets, garden accessories, 35 baked goods, floral supplies and other items directly related to the culture, care, use of, or processing of a principal use. Products not related to the 36 37 principal permitted use such as lawn mowers and tractors shall not be 38 allowed. 39 Retail sales areas within structures shall not exceed, in the aggregate, 10,000 (E) 40 square feet of floor area or a Floor Area Ratio of .02, whichever is greater.
- 41(F)Farm Markets (off-site production), in addition to Standards (B) through (E)42above, must meet the following additional standards:

1 2 3 4		(1)	sale at Loudo	imum of twenty five percent (25%) of the products offered for t the Farm Market (off-site production) must be produced in oun County. An annual report verifying this percentage shall omitted to the Zoning Administrator on request.
5 6 7 8		(2)	provid outdoo	ag spaces for Farm Markets (off-site production) shall be led at a rate of $4/1,000$ square feet of floor area of indoor and or sales area, with a required minimum of 10 spaces per ishment.
9		(3)	Lands	caping/Buffering/Screening.
10 11			(a)	Buffer.—The use shall comply with the landscaping and screening standards of Section 5-653(A)1404(A)(6).
12 13			(b)	Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
14 15 16			(c)	Storage Areas. All storage areas shall <u>comply with be</u> screened and landscaped consistent with the standards of Section 5-653(C):1406.
17	5-604 Ways	ide Sta	nds. W	ayside stands are subject to the following provisions:
18 19 20 21	(A)	are fai site" s	rm and g hall be	ds are for retail sales provided the principal sales items sold garden products produced principally on-site. The term "on- defined as all locations (separate parcels) used by the owner farming (agriculture, horticulture or animal husbandry).
22 23 24	(B)	aggreg	gate, ter	tail sales areas within structures shall not exceed, in the thousand (10,000) square feet in floor area or a Floor Area whichever is greater.
25 26 27 28	(C)	7, 200 limita	03. Th tion and	ds may be located in farm structures existing prior to January ne sales area in an existing farm structure shall have no l may be used as a sales area subsequent to compliance with Statewide Building Code.
29 30	(D)	Sales sales a		or accessory products shall be limited to 25% of the gross
31 32 33	(E)		ducts p	oducts include those products related to the care and culture produced on the farm, such as pottery, baskets, and garden
34 35 36	(F)	provic	le safe	d exits to the wayside stand from public roadways shall ingress and egress from roads, and shall be channeled to tricted vehicular access to and from the premises.
37 38	(G)			asonal produce harvested on the farm may occur throughout tual production.

1 (H) Signs for wayside stands shall be erected in compliance with Section 5-2 1200. 3 5-605 **Commercial Nurseries.** The following minimum requirements shall apply to all retail sales associated with production nurseries and commercial nurseries: 4 5 (A) In calculating the percentage of plants grown on-site, plants must be cultivated at the subject nursery facility for at least one (1) full season of 6 7 new growth for that plant. 8 **(B)** Plant production may be certified by the County Extension Agent, if 9 requested by the Zoning Administrator. Plants brought to the subject nursery for immediate resale are included in 10 (C) calculations for non-site produced plants and accessory products. 11 12 (D) Accessory products include those related to the culture and care of plant sold such as pottery, baskets, garden accessories, baked goods, and floral 13 14 supplies. The sale of bulk products shall be permitted subject to the 15 screening buffer yard requirements for outdoor storage in of Section 5-1414(A1404). Propane, firewood lawn and garden tractors, or machine or 16 other equipment sales are not accessory products. 17 The sales area for accessory products shall be limited to twenty-five 18 (E) 19 percent (25%) of the gross sales area. 20 (F) Twenty-five percent (25%) of the gross sales receipts of the commercial nursery must be derived from plants produced on site; or twenty-five 21 22 (25%) of the area designated as a commercial nursery shall be dedicated to the cultivation of plants to be sold on site. 23 Kennels/Indoor Kennels. For the purposes of this Ordinance, the following 24 5-606 words and phrases shall have the meanings respectively ascribed to them by this 25 26 Section: 27 (A) Kennels. 28 (1)General. Kennel shall mean any place in or at which, for a fee, 29 five (5) or more dogs, cats, or other household pets over the age of 30 six months are trained, boarded, including day care services, or 31 handled. 32 (2)Not Applicable to Animal Hospital/Grooming Use. This Section shall not apply to any establishment whose principal use is 33 grooming or any animal hospital. 34 35 **(B)** Indoor Kennel. 36 (1)General. Indoor kennel shall mean any place that is within a 37 completely enclosed commercial facility with no outdoor activity in which dogs, cats or other household pets are confined or penned 38

1 2 3 4			groom letting	e proximity to each other, except for the primary purpose of ing, or wherein any owner engages in boarding, breeding, for hire, training for a fee, or selling dogs, cats, or other hold pets.
5 6 7 8 9 10		(2)	No Op structu ingress waste that th	bening to Outside. Indoor Kennels shall not be housed in a are with any opening to the outside except required s/egress and ventilation equipment, shall have an animal handling plan, and shall conform to any other requirements the Planning Commission and/or Board of Supervisors may e pursuant to special exception review (Section 6-1300).
11 12 13 14 15 16		(3)	an inde to 10% gross f area fo	sory Uses. Indoor Kennels may include accessory uses to oor kennel: up to 10% of gross floor area for retail sales, up 6 of gross floor area for veterinary service, up to 10% of floor area for animal hospital, and up to 10% of gross floor or grooming; provided, however, that accessory uses may not 1 25% of the total gross floor area.
17 18	(C)			R, TR, and JLMA Districts. Kennels in the AR, TR, and ts shall comply with the following standards.
19 20		(1)		ion on Site/Dimensional Standards. An outdoor kennel be set back 100 feet from a lot line.
21		(2)	Roads	s/Access.
22 23			(a)	All kennels shall comply with the road access standards of Section 5-654.
24 25 26			(b)	There shall be no more than one point of access from a kennel to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
27		(3)	Lands	scaping/Buffering/Screening.
28 29			(a)	The use shall comply with the landscaping and screening standards of Section $5-\frac{653(A)}{1404(A)(6)}$.
30 31			(b)	Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
32 33 34		(4)		tior Lighting Standards. All exterior lighting shall comply the standards of Section 5-652(A) (Exterior Lighting ards).
35 36 37		(5)	emitte	The maximum allowable $dB(A)$ level of impulsive sound d from the use, as measured at the property line, shall not $1.55 dB(A)$.
38		(6)	Parkiı	ng.

1 2			(a)	General. Parking and loading shall be provided as required by Section 5-1102.
3			(b)	Surface. All parking areas serving the use shall use a dust-
4				free surfacing material as provided in the Facilities
5				Standard Manual.
6	5-607 Recy	cling Dr	op-Off	Centers and Material Recovery Facilities.
7	(A)			ndards for Recycling Drop-Off Centers. All recycling
8 9		drop-o standa		ers, public or private, shall meet the following minimum
10		(1)	Center	s may be established on a site which has either a public or
11			private	e school, shopping center, community center, church, park,
12				ation, or library, or may be established on land owned by a
13			local g	government or an owners' association.
14 15		(2)		er may utilize movable containers and trailers to collect and ecyclable materials.
16		(3)	All re	cycling drop-off centers shall accept only glass, metals,
17		(-)		s, papers, corrugated cardboard, and other identified
18			-	le recyclable items; hazardous or toxic materials shall not be
19			accept	ed.
20		(4)	Recyc	ling drop-off centers shall be no larger than 3,000 square feet
21			in are	a. The 3,000 square feet area shall be for the recycling
22			contai	ners only.
23		(5)		cyclable materials stored at recycling drop-off centers shall
24				red in containers which are constructed and maintained of a
25				e waterproof and rustproof material, are secured from
26 27				orized entry or removal of material, and are of a capacity ent to accommodate material collected.
28		(6)	Poovo	ling containers shall be clearly marked to identify the type
28 29		(0)	-	erial which may be deposited. Recycling drop-off centers
30				e marked clearly to identify the name and telephone number
31				facility sponsor and the hours of operation, and display a
32				stating that no material shall be left outside the recycling
33				ure or containers.
34		(7)	All p	ublic and private recycling drop-off centers shall be
35			mainta	ined free of litter by a responsible sponsoring organization
36			or by]	Loudoun County.
37		(8)	All re	cycling drop-off centers shall be screened from-residential
38				ther uses on the same parcel and adjacent residential uses in
39				ance with Section 5-1406. by an opaque fence at least 6 feet
40				the when a recycling drop-off center is located on a lot with
1			-6	

1			
1 2 3 4 5 6 7 8 9		landso recycl reside center drop o be in o Ordin	er principal use on the lot, then, in addition to the cape/buffer requirements of the other principal use, the ing drop-off center must be screeened from adjoining ntial, public or private school, shopping center, community c, church, park, fire station, or library uses. When a recycling off center is a sole principal use on the lot, landscaping shall conformance with the requirements of Section 5-1400 of this ance for commercial and light industrial uses abutting a ntial use.
10 11	(9)	Recyc dwelli	eling containers shall be at least 150 feet from any residential ing.
12 13 14 15 16 17 18	(10)	ingres (1) sta drop-o detern shall b	ecycling drop-off center shall be situated so that vehicular is and egress do not pose traffic hazards. A minimum of one acking or parking space per 500 square feet of the recycling off center, or the anticipated peak customer load as nined by the Zoning Administrator, whichever is higher, be required on-site. Stacking and parking spaces shall not be d within the road right-of-way or setbacks.
19 20 21 22	(11)	may n	bation of any parking spaces by the recycling drop-off center ot reduce required parking spaces for the principal use below quired minimum number, unless the following conditions
23 24 25		(a)	A parking study shows that existing parking capacity is not fully utilized during the hours of operation of the principal use and the recycling drop-off center, or
26 27		(b)	Hours of normal operation of the principal use do not overlap those of the recycling drop-off center.
28	(12)	Signs	may be provided as follows:
29 30		(a)	Sizes of signs must be in conformity with Section 5-1200 of this Ordinance.
31		(b)	Signs must be consistent with the character of the location.
32 33 34 35		(c)	Directional signs, bearing no advertising message, may be installed with the approval of the Zoning Administrator if necessary to facilitate traffic movements on site, or if the facility is not visible from the public right-of-way.
36 37	(13)	-	rtion of any recycling drop-off center shall be located in any floodplain or setbacks cited herein.
38 39	(14)		oxious odors shall be emitted beyond any boundary lines of cycling drop-off center.

1 2 3 4		(15)	Operation of recycling drop-off centers shall occur during daylight hours, unless located within commercial or industrial areas which are equipped with lighting capable of illuminating the center during periods of darkness.
5	(B) S	Specifi	ic Standards for Public Recycling Drop-Off Centers.
6 7 8 9 10		(1)	Public recycling drop-off centers shall be set back at least fifty (50) feet from the right-of-way of any street or as otherwise specified in-under Section $\frac{5-9005-1403(B)}{5}$; and at least fifty (50) feet from any lot or land bay zoned, used, or planned for residential uses, and shall not obstruct pedestrian or vehicular circulation.
11	(C) S	Specifi	ic Standards for Private Recycling Drop-Off Centers.
12 13 14		(1)	The center shall meet the setback requirements for PD-GI uses adjacent to a lot or land bay zoned, used, or planned for residential use.
15 16 17 18 19		(2)	In commercially and industrially zoned districts, a center may utilize electric power-driven processing equipment to sort, clean, or compact recyclable materials between the hours of 7AM and 7PM. Use of such equipment is not permitted in residentially zoned districts.
20 21		-	ic Standards for Material Recovery Facilities (MRF). All shall meet the following minimum standards:
22 23 24 25		(1)	Neither an MRF nor the lot on which the MRF is located shall abut a property in residential land use. All processors shall operate in an entirely enclosed building except for incidental storage, except when:
26 27 28			(a) The operation is within an area enclosed on all sides by an opaque fence or wall not less than eight (8) feet in height and landscaped on all property lines; and
29 30			(b) The operation is located at least 300 feet from any property zoned, used, or planned for residential uses.
31 32 33 34		(2)	Processing in MRF's is limited to baling, briquetting, crushing, compacting, grinding, shredding, and sorting of source-separated recyclable materials, construction debris, and repairing of reusable materials.
35 36 37		(3)	Power-driven processing equipment shall be permitted, provided that the noise level requirements of Section 5-1507 and any special exception conditions are met.
38 39		(4)	All exterior storage of material shall be in sturdy containers or enclosures which are covered, secured, and maintained in good

1 2				condition at all times, or shall be baled or palletized. No such storage shall be visible from any adjacent road or other property.
3 4 5			(5)	MRF sites shall be maintained free of litter, shall be cleaned of loose debris on a daily basis and shall be secured from unauthorized
6			(6)	entry and removal of materials when unattended.
7 8 9 10			(7)	MRF sites located within 500 feet of an occupied residential dwelling shall not be in operation between the hours of 7:00 p.m. and 8:00 a.m. The MRF will be administered by on-site personnel during all hours of operation.
11 12 13			(8)	Any containers provided for after-hours donation of recyclable materials shall be at least 500 feet from any occupied dwelling unit.
14 15 16 17			(9)	If the MRF is open to the public, a minimum of ten (10) vehicle stacking spaces or the number of spaces necessary to accommodate the peak anticipated load as determined by the Zoning Administrator, whichever is higher, shall be required on-site.
18 19 20 21			(10)	A minimum of one (1) parking space shall be provided for each commercial vehicle owned and operated by the MRF, unless a greater number of spaces is required by the zoning district in which the facility is located.
22 23			(11)	No dust, fumes or smoke, above ambient levels may be detectable on adjacent properties.
24 25 26			(12)	Noise or vibration emitted or derived from the MRF shall not exceed the levels permitted by Sections 5-1505 and 5-1507 respectively.
27 28 29 30			(13)	All material recovery facilities shall accept only glass, metals, plastics, papers, corrugated cardboard, construction debris, and other identified reusable recyclable items; hazardous or toxic materials shall not be accepted.
31 32			(14)	No noxious odors shall be emitted beyond any boundary lines of the facility.
33 34	5-608			al Uses. The following limitations regarding flex-industrial uses shall apply at a minimum:
35 36 37		(A)	shall n	lding shall exceed two (2) stories in height, except this requirement tot apply to the Planned Development-Mixed Use Business (PD- zoning district.
38		(B)	All bui	ildings shall have a minimum of two (2) loading bays.

1 (C) All loading bays shall be located so that vehicles using such bays shall not 2 be visible from public streets. All loading bays shall be screened from 3 view by the building, landscaping, walls or decorative fencing. Except during the process of loading or unloading, trucks and trailers shall not be 4 5 parked outside the building, unless parked in screened areas not visible from adjacent roads or properties. 6 7 (D) No more than 49 percent of the gross floor space of each building shall be used for non-accessory office uses. 8 9 (E) Office uses recognized as appropriate in flex-industrial/office buildings 10 shall be associated with permitted and special exception uses and shall not include professional office uses with high-turnover or high intensity 11 12 traffic, such as but not limited to corporate headquarters (unless associated 13 with a permitted use), law offices, architectural offices, insurance offices, 14 medical offices and health maintenance organizations. No outdoor storage is permitted. 15 (F) All sources of emission of noise and/or vibration shall meet the 16 (G) performance standards of Sections 5-1505. 17 18 5-609 Child Care Facilities. Child care homes and centers are permitted provided they comply with the following standards: 19 20 **Child Care Homes:** (A) 21 Notwithstanding Section 5-600 of this Ordinance, this Section 5-(1)609(A)(1) and Sections 5-609(A)(2), (4), (5) and (6) below shall 22 23 not be modified by Minor Special Exception. The total number of children cared for in a child care home shall 24 (2)25 not exceed a maximum of twelve (12) children under the age of 26 thirteen (13). 27 (3) When calculating the total number of children cared for in a child care home, the provider's own children, children residing on the 28 29 premises, and non-resident children shall be included. 30 (4)The child care home shall be the principal residence of the child 31 care home provider. 32 (5) The child care home shall comply with any and all requirements of the County and State Codes, including without limitation, 33 34 obtaining a Zoning Permit in accordance with Section 6-1000 of this Ordinance, obtaining a County Business License, and 35 obtaining a State Family Day Home License in accordance with 36 37 the Code of Virginia, as applicable, prior to establishing the use. 38 (6) Prior to the issuance of a Zoning Permit for a child care home, 39 written notice of the Zoning Permit application shall be sent to the

last known address of the owner of each adjacent property as shown on the County's current real estate tax assessment records. For the purposes of this Section 5-609(A)(6) "adjacent" shall mean properties abutting the subject property and all property immediately and diagonally across the street or road from the subject property, but not including properties separated from the subject property by a roadway having more than two through lanes of travel, or, properties across such roadway that are more than 100 feet from the boundary of the subject property. Such written notice shall be sent by certified or registered mail. When such notice is not sent by the County, mail receipts or an affidavit shall be submitted to the Zoning Administrator showing that the required notice was sent. Such written notice shall include the following information:

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- (a) A statement that a Zoning Permit application for a child care home has been submitted to the County;
- (b) The address of the property subject to the Zoning Permit application for the child care home;
- (c) A statement informing the adjacent property owner that if they have any objection to the proposed child care home that they can send their objection in writing to the Zoning Administrator, which must be received within thirty (30) days from the date the notification letter was sent, and that such written objection shall include the specific issues that are the basis for their objection. The address of the Zoning Administrator shall also be included in the notice letter.
- (7) The Zoning Permit application for the child care home shall include a Sketch Plan, in accordance with Section 6-703 of this Ordinance, The Sketch Plan shall show the size and location of the required outdoor play area and fence required by (8) below, and the required parking spaces.
- (8) If the Zoning Permit application for the child care home is denied, the child care home may be permitted by approval of a Minor Special Exception by the Board of Supervisors, in accordance with the provisions of Section 6-1300 of this Ordinance.
- (9) Unless exempted by (9)(d) below, an outdoor play area shall be provided on the lot where the child care home is located. The outdoor play area shall meet the following standards:
 - (a) The minimum size of the outdoor play area shall be seventy-five (75) square feet for each child permitted in the outdoor play area at any given time.

1 2 3 4 5		 (b) A fence at least three and one half (3 ¹/₂) feet in height shall completely enclose the outdoor play area so that children are safely contained inside, and that all persons entering the outdoor play area are within direct line of sight from the child care home. (a) The outdoor play area chall be leasted in the rear on side
6 7		(c) The outdoor play area shall be located in the rear or side yard.
8 9 10 11 12 13 14 15 16 17 18 19 20 21		(d) No outdoor play area shall be required on-site when it is demonstrated that the child care home is located within 1,000 feet of an existing park or outdoor play area of at least two (2) times the size required for the child care home, providing that such park or outdoor play area may be accessed without crossing an arterial or collector road. Such park or outdoor play area shall either be a public park (neighborhood, community or regional park) or other public play area or park which is shown on the approved concept development plan, site plan, or subdivision plat for the development within which the child care home is located, and which is for the use of owners and residents of the portion of the said development where the child care home is located.
22	(10)	Two non-resident assistants/employees shall be permitted.
23 24	(11)	The hours of operation for the child care home shall be limited to five days a week between the hours of 6:00 AM and 7:00 PM.
25 26	(12)	Signage for the child care home shall be as permitted in Section 5- 1200 of this Ordinance.
27 28 29 30	(13)	Parking spaces required by Section 5-1102 of this Ordinance shall be designed for the drop off/pick up of children and shall be designed and constructed to enhance the safety of children as they arrive and leave the child care home.
31 32 33	(14)	For child care homes permitted to care for more than nine (9) children, including the provider's own children, children residing on the premises, and non-resident children:
34 35 36		The child care home shall be permitted only in a single family detached dwelling that is located on a lot that is a minimum of 5,000 square feet in size.
37	(B) Child	d Care Centers:
38 39 40 41	(1)	The child care center shall comply with any and all requirements of the County and State Codes, including without limitation, obtaining a Zoning Permit in accordance with Section 6-1000 of this Ordinance, obtaining a County Business License, and obtaining a

$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ \end{array} ($	(2)	Virginia Section be mod Except be prov	Child Day Center License in accordance with the Code of a, as applicable, prior to establishing the use. Notwithstanding 5-600 of this Ordinance, this Section 5-609(B)(1) shall not lified by Minor Special Exception. as provided under (2)(e) below, an outdoor play area shall rided on the lot where the child care center is located. The r play area shall meet the following standards:
8 9 10		(a)	The minimum size of the outdoor play area shall be seventy-five (75) square feet for each child permitted in the outdoor play area at any given time.
11 12 13 14 15			A fence at least three and one half $(3 \frac{1}{2})$ feet in height shall completely enclose the outdoor play area so that children are safely contained inside, and that all persons entering the outdoor play area are within direct line of sight from the child care center classroom areas.
16 17 18 19 20			The outdoor play area shall not be located within the minimum required front yard, but may extend into the minimum required side and rear yards. No play equipment shall be located within any required yard or setback of any district.
21 22 23			The outdoor play area shall be safely segregated from parking, loading, or service areas (such as dumpster pads or delivery sites).
24 25 26 27 28 29 30 31 32 33 34 35 36 37			No outdoor play area shall be required on-site when it is demonstrated that the child care center is located within 1,000 feet of an existing park or outdoor play area of at least two (2) times the size required for the child care center, providing that such park or outdoor play area may be accessed without crossing an arterial or collector road. Such park or outdoor play area shall either be a public park (neighborhood, community or regional park) or other public play area or park which is shown on the approved concept development plan, site plan, or subdivision plat for the development within which the child care center is located, and which is for the use of owners and residents of the portion of the said development where the child care center is located.
38 39 ((3)		g areas and vehicular circulation patterns shall meet the ng standards:
40 41			Parking areas shall be designed to enhance the safety of children as they arrive at and leave the facility.

1 2 3 4 5 6 7				(b)	A designated area for the drop off/pick up of children, providing at a minimum one (1) parking space per twenty (20) children, shall be located in proximity to the child care structure in such a way that provides safe and clearly designated access to enter or exit the center. Such parking spaces may be used to meet the minimum off-street parking requirements of Section 5-1102.
8	5-610	Hospi	tals. Th	ne follo	wing standards shall apply to the development of hospitals:
9		(A)	Locati	ional C	riteria.
10 11			(1)		spital sites shall have frontage on a public, hard surfaced apable of accommodating the traffic generated by the site.
12 13			(2)	-	tal structures shall be set back a minimum of 250 feet from y-designated Agricultural-Forestal districts.
14		(B)	Site D	evelopi	nent Criteria.
15 16			(1)		tals serving over one hundred (100) inpatients shall be by public water and sewer systems.
17 18 19 20			(2)	proper require	pal structures shall be set back a minimum of 100 feet from ty lines or shall meet the minimum yard setback ements of the district within which it is located or the nt district setback requirements, whichever are greater.
21 22 23 24 25			(3)	25 fee proper shall	sory structures and parking shall be set back a minimum of et from any rights-of-way, private access easements, and ty lines which adjoin agricultural or residential districts, or meet the minimum yard setback requirements of those ing districts, whichever are greater.
26 27	5-611	Hotel/ hotel/r	Motel. notel:	The	following standards shall apply to the development of
28		(A)	Locati	ional C	riteria.
29 30			(1)		Motel shall be located on, or with ready access to, collector rial roads.
31 32 33			(2)	enviro	Motel buildings and uses shall not be located in nmentally critical or sensitive areas as defined by the rehensive Plan.
34		(B)	Site D	evelopi	nent Criteria.
35 36			(1)		Motel uses shall be served by a public water and sewerage al system.

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1 2 3 4 5 6 7 8			(2)	Hotel/Motel uses shall be separated from agricultural_uses by a minimum Buffer Yard Type A with a minimum width of 100 feet. Hotel/Motel uses shall be separated from residential and institutional uses by a minimum Buffer Yard Type B with a minimum width of 100 feet. , residential, or institutional uses by a landscape buffer with a minimum width of 100 feet, or the minimum width required by Section 5-1400 of this Ordinance, whichever is greater.s
9 10 11		(C)	PD-O	s/Motels in the PD-OP and PD-IP Districts. Hotels/Motels in the P and PD-IP districts shall be permitted if the use complies with the ving standards.
12 13			(1)	The hotel/motel use shall include a minimum total of 30 square feet per number of hotel rooms of dividable meeting/conference space.
14 15			(2)	A restaurant and/or carry-out food service shall be provided on- site.
16 17 18 19			(3)	The following amenities shall be provided: Swimming pool, exercise room or fitness facility, a guest store or area offering personal necessities or other items, in addition to the required meeting/conference space.
20	5-612	Guest	t House	s. Guest houses are subject to the following additional standards:
21 22		(A)	Only house	guests or occupants of the principal residence shall use the guest .
23 24		(B)		houses may not be rented, operated for gain, or otherwise used as a ate dwelling.
25 26 27		(C)	the gr	loor area of any guest house shall not exceed the lesser of (i) 70% of oss floor area of the principal structure and a footprint not more than of the principal structure or (ii) 2,500 square feet of gross floor area.
28 29 30 31 32 33 34 35 36 37 38 39		(D)	Count (HCC) in the Histor resour used requir of suc to Jan Admi	acture existing prior to January 7, 2003, that is: 1) located within a by Historic Site (HS) District or Historic and Cultural Conservation c) District under Section 6-1800 et seq.; 2) listed or eligible for listing e Virginia Landmarks Register (VLR) or the National Register of fic Places (NRHP); or 3) listed or eligible for listing as a contributing ree to a VLR or NRHP listed or eligible Historic District, may be as a Guest House and shall be exempt from the floor area rements specified above, provided that any expansion or enlargement th structure shall not exceed 15% of the total floor area existing prior nuary 7, 2003. Documentation shall be provided to the Zoning nistrator demonstrating that the Virginia Department of Historic trees has confirmed the listing or eligibility of structures.
40 41	5-613		•	partments and Dwelling Units. Accessory units are subject to the ditional standards:

- (A) No such accessory apartment or dwelling unit shall exceed the lesser of (i) 70% of the gross floor area of the principal structure and a footprint not more than 70% of the principal structure or (ii) 2,500 square feet in gross floor area.
- (B) Accessory apartments and dwelling units shall be permitted only on lots exceeding 20,000 square feet in area. Such lot size restrictions shall not apply in Rural Villages, Rural Hamlets and Countryside Villages. Further, in R-4 and R-8 zoning districts, accessory apartments and dwelling units shall be permitted on cluster or traditional design option lots, on lots less than 10,000 square feet in area.
- (C) In districts other than A-10, AR-1, AR-2, A-3, PD-RV and PD-CV, accessory apartments and dwelling units shall be located only on lots served by public sewer.
- (D) Only one (1) accessory dwelling unit or apartment shall be permitted on a lot. One additional accessory apartment or dwelling unit is permitted on a parcel with an area of 20 acres or more.
 - (E) Accessory units may be located within an accessory building, agricultural structure, or in the principal structure.
 - (F) All of the use limitations of Section 5-102 shall be met.
 - (G) In the AR-1 and AR-2 Districts, one additional accessory dwelling shall be permitted for each 25 acres in excess of 20 acres. Additional dwellings may be permitted by special exception for seasonal labor.
- (H) A structure existing prior to January 7, 2003, that is: 1) located within a County Historic Site (HS) District or Historic and Cultural Conservation (HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing in the Virginia Landmarks Register (VLR) or the National Register of Historic Places (NRHP); or 3) listed or eligible for listing as a contributing resource to a VLR or NRHP listed or eligible Historic District, may be used as an Accessory Apartment or Accessory Dwelling Unit and shall be exempt from the floor area and minimum lot area requirements specified above, provided that any expansion or enlargement of such structure shall not exceed 15% of the total floor area existing prior to January 7, 2003. Documentation shall be provided to the Zoning Administrator demonstrating that the Virginia Department of Historic Resources has confirmed the listing or eligibility of structures.
- **5-614**

Small Businesses.

(A) **Purpose and Intent.**

(1) **General.** The purpose of this section is to allow residents in the AR-1, AR-2, A-3, A-10, TR, CR, JLMA, PD-RV and PD-CV districts to locate and operate small-scale service and contracting businesses or lease such businesses, which preserve the rural and

historic character of the districts and agriculture as an industry. It is the general intent of this Ordinance that commercial uses locate in and around existing urban areas that have adequate roads, public facilities and utilities. However, some small businesses may locate within these districts in order to provide economical and convenient services to the rural area, to supplement farming as a source of income and to operate a home-based business where feasible. Some small businesses can operate in the rural areas with special designs and conditions that mitigate impacts on neighboring rural residential properties.

- (2) Allow Local, Small-Scale Businesses to Locate and Operate. The intent of this Section is to allow local, small-scale businesses to locate and operate. It is not intended to permit franchises, branch facilities or other partial elements of larger enterprises that have other business facilities in other locations. Such larger scale enterprises, including expanding businesses which initially located in rural areas under the provisions of this Section, must locate in the County's industrial and commercial zoning districts where they will not adversely impact residential neighborhoods or agricultural activities.
- (3) Uses Temporary for Starting New Business. The uses approved under the provisions of this section shall be considered temporary for the purpose of starting new businesses. Once a small business needs to expand its area, number of employees, or commercial and customer traffic beyond the capacity and character of the rural area, the business shall relocate to a location appropriately zoned for commercial, business or employment uses. The Board of Supervisors may impose appropriate conditions limiting the duration or transfer of special exceptions granted under the provisions of this Ordinance.
- (4) Adaptive Re-use of Farm Structures. In addition to home occupations and small businesses, the adaptive re-use of farm structures for the intended use of home occupations and small businesses is allowed with respect to the use of small businesses.
- (B) **Definitions.** For the purposes of Section 5-614, Small Businesses in the AR, A-3, A-10, TR, CR, JLMA and PD-CV districts, terms used are defined under "Small Business" in Article 8 of this ordinance.

(C) Permitted Small Business Uses.

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41 42 Small business uses, as listed in subsection D, which meet all of the conditions in Section 5-614(E) shall be allowed on lots of ten (10) acres or greater, subject to approval of a zoning permit/sketch plan, as defined in Section 5-614(H).

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- (D) Small Business Uses Permissible by Special Exception. Small businesses not meeting the criteria of Section 5-614(C) may be allowed by special exception, granted by the Board of Supervisors upon recommendation of the Planning Commission. Special exception applications made pursuant to this Section are subject to the procedures and standards established in Section 6-1300 as well as to the uses, standards and restrictions that follow. The following uses may be approved as "small businesses" in the AR-1, AR-2, A-3, A-10, TR, CR, JLMA and PD-CV zoning districts:
- 10 (1) Business service occupations.
 - (2) Personal service occupations.
 - (3) Repair service occupations.
 - (4) Contractors and contracting.
 - (5) Professional office-based services.
 - (6) Studios for fine arts and crafts.
 - (7) Antique sales and the sale of any goods or items produced on the premises.
 - (8) Except as provided above, no retail or wholesale commercial businesses are permitted.

(E) Small Business Site Development Criteria.

(1) Standards and Restrictions for Small Business Uses.

	Acreage	No. of Employees	Heavy Equip. (On-Site)	Business Vehicles (On-Site)
(a)	0-3	1 maximum	none	2 maximum
(b)	3 but <10	3 maximum	none	2 maximum
(c)	10 but <50	4 maximum	2 maximum	4 maximum
(d)	50 or greater	10 maximum	5 maximum	6 maximum

(e) Business vehicle may not have more than two axles.

(2) **Regulations for Structures.**

	Acreage	Size of Structures
(a)	3-5	2,000 sq. ft. maximum
(b)	5 but <10	2,500 sq. ft. maximum

(c)	10 or greater	5,000 sq. ft. maximum for the initial 10
	-	acres, plus an additional 1,000 sq. ft. for
		each additional 10 acres, not to exceed
		15,000 sq. ft. maximum

- Building Height: 35 feet maximum. (d)
- (3) Notwithstanding the limitations placed on home occupations in Section 5-400, 100% of an existing farm structure may be used. An approved zoning/building permit shall be received for the change in use.

Regulations for Storage Yards. (4)

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		(a)	Acreage 3-5 5 but <10 10 or greater	Size of Storage Yards 2,000 sq. ft. maximum 2,500 sq. ft. maximum 5,000 sq. ft. maximum for the initial 10 acres, plus an additional 1,000 sq. ft. for each additional 10 acres, not to exceed 15,000 sq. ft. maximum
		(u)	requirements of Storage and S	of Section 5-653(C) (Screening of Outdoor torage Yards). Outdoor storage space must all sides by a fence.
	(5)	Setba	ck requiremen	ts.
		(a)	uses allowed	or storage yards of less than 2,000 sq. ft. for under this Section shall be set back a 00 feet from all lot lines.
		(b)		or storage yards in excess of 2,000 sq. ft. ck at least 300 feet from all lot lines.
		(c)	equipment sha	or storage yards used for the storage of heavy all be set back at least 300 feet from all lot feet from existing residential dwellings.
	(6)			use, or store on site, heavy equipment shall weather state-maintained road.
(F)	Sketch	and S	ite Plans.	
	(1)	applica includ includ	ation for permi e a drawing o ing the size and	ch plan is required as part of a zoning permit itted small businesses. Sketch plans shall of all aspects of the business operations d dimensions of the residence; the size and within the residence to be used for the

1 2 3 4 5 6 7 8 9 10 11 12 13		business; size, dimensions, and location of any structures, outdoor storage yards, and screening and buffering; size and dimensions of parking areas and signs if any; and the approximate location of any on-site major floodplain as determined from the County flood plain map. In addition, the sketch plan shall include the required off-site information needed to illustrate conformance with the small business regulations, (Section 5-614), such as distances between storage yards, structures and adjacent residential structures and other buildings, the location and width of adjacent right-of-way, adjoining properties, and easements. The sketch plan need not be drawn to scale, nor does it have to be prepared by a licensed professional. However, distances from structure to adjacent lot lines must be accurately depicted.
14 15 16 17		 (2) Special Exceptions. Special exceptions may contain a condition for a site plan, in lieu of a sketch plan as defined herein, when the Board of Supervisors finds such a condition is necessary to mitigate potential off-site impacts of the proposed use.
18 19 20	(G)	Signs. Signs for permitted and special exception small businesses approved under Section 5-614 are subject to the regulations contained in Section 5-1200 of this Ordinance for Businesses.
21	(H)	Applicability of District Regulations to Small Business Uses.
22 23 24 25		(1) The AR-1, AR-2, A-3, A-10, TR, CR, JLMA and PD-CV district regulations and the general regulations which are consistent with these provisions shall apply to small business uses located in those districts.
26 27 28 29 30		(2) To the extent permitted by other provisions of the Loudoun County Zoning Ordinance, any use accessory and subordinate to a principal agricultural use shall not be affected by Section 5-614. In addition, nothing herein shall affect any legal nonconforming use as provided for in Article I.
31	(I)	Parking.
32 33		(1) General. Parking shall be provided in accordance with Section 5- 1102 when employees and customers are to be on the premises.
34 35 36		(2) <u>Landscaping</u> /Buffering/Screening. Parking areas shall be screened to comply with the <u>Section 5-1407</u> . requirements of <u>Section 5-653(B)</u> .
37 38		(3) Location. No parking shall be permitted in a required yard or setback.
39 40	(J)	Exterior Lighting Standards. All exterior lighting shall comply with the standards of Section 5-652(A) (Exterior Lighting Standards).

1 2		(K)	Noise Standards. The use shall comply with the noise standards of Section 5-652(B) (Noise Standards).
3	5-615	Farm	Machinery Sales and Service.
4 5		(A)	The establishment shall be located on a paved, state-maintained road not more than 1,000 feet from a primary state road.
6 7 8		(B)	The structures, storage, and parking areas and/or the perimeter of the property shall have a <u>Buffer Yard</u> Type <u>Three (3)B</u> <u>Buffer Yard</u> to screen such areas from adjacent residential buildings.
9		(C)	Buildings shall be set back a minimum of 75 feet from all property lines.
10 11 12		(D)	Parking, driveways (other than entrance) and storage yards shall be set back a minimum 75 feet from the property line along any road frontage, and a minimum of 50 feet from all other property lines.
13 14		(E)	Sites for such establishments shall not be less than three (3) nor more than ten (10) acres.
15 16 17 18 19 20		(F)	Accessory retail sales shall be limited to farm and garden equipment parts and related tools and accessories. In no case shall the floor area devoted to the display and sale of such related tools and accessories be more than 15% of the floor area of the building site. No other non-farm equipment sales shall be permitted, including, but not limited to, lumber, hardware, building materials, or like items.
21 22		(G)	No structure shall be located within 500 feet of an existing residential structure.
23		(H)	The total Floor Area Ratio for all structures shall not exceed 0.1.
24 25	5-616		y Substations. The following standards shall apply to the development of y substations.
26		(A)	Utility substation, transmission.
27 28			(1) In all agricultural and residential districts, utility substations shall be located on lots of one (1) acre or more.
29 30			(2) In all commercial and industrial districts, utility substations shall be located on at least the minimum lot size of the district.
31		(B)	Utility substation, distribution.
32 33			(1) In all agricultural and residential districts, utility substations shall be located on lots of one (1) acre or more.
34 35			(2) In all commercial and industrial districts, utility substations shall be located on lots of one (1) acre or more.

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1 2 3		(C)	All utility substations shall be located in areas consistent with the adopted Comprehensive Plan. A Commission Permit shall be required unless the utility substation is specially delineated in the Comprehensive Plan.
4 5 6 7 8 9 10 11 12 13 14		(D)	All utility transmission and distribution substations and accessory storage yards shall have a minimum <u>Buffer Yard</u> Type-Four (4) <u>C</u> Buffer Yard provided, however, in areas where required utility connections preclude installation of the required canopy and understory of large and small deciduous trees of the Type 4 Buffer Yard, the maximum percentage applicable to shrubs under Section 5-1408(B)(2)(d) shall not apply.such trees may be replaced with shrubs, at a rate double to that of the required canopy and understory trees. In lieu of the minimum and maximum percentages applicable to evergreen trees under Section 5-1408(B)(2)(b), a minimum of 40% and a maximum of 70% of the required plant units shall be evergreen trees.
15		(E)	Such utilities may be accessed by a private access easement.
16 17 18	5-617	smalle	tanding Convenience Food Stores. Except to the extent permitted on er lots in the Rural Commercial (RC) and Planned Development-Mixed Use ess (PD-MUB) zoning districts.
19 20		(A)	Convenience food stores shall be located on lots of 50,000 square feet or greater.
21 22		(B)	Convenience food store shall contain no more than 5,000 square feet of retail area.
23 24		(C)	If a convenience food store is located at the intersection of two streets, the lot must have at least 200 feet of frontage on each street.
25 26 27 28		(D)	Any convenience food store located within 200 feet of a residentially zoned, used, and/or planned district or land bay must provide an acoustical barrier, such as landscaping, berms, fences and/or walls, to attenuate noise to levels required by Section 5-1507.
29 30	5-618		ommunications Use And/Or Structures. The following performance ards shall be applied to telecommunication uses and/or structures.
31		(A)	Antennas.
32 33 34 35 36 37 38 39 40			(1) Antennas, Any Portion of Which Exceeds a Height of 60 Feet As Measured from Natural Ground Elevation, When Mounted on Buildings and Structures. Antennas and related unmanned equipment connected to such antennas, any portion of which that exceeds a height of sixty (60) feet, as measured from natural ground elevation, mounted on buildings or structures may be developed subject to the following performance standards to the extent telecommunications antennas are listed as a permitted use in the underlying zoning district.

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1 2 3 4	(a)	Omnidirectional or whip antennas shall not exceed twenty (20) feet in height or seven (7) inches in diameter and shall be of a material or color which matches the exterior of the building or structure upon which they are mounted.
5 6 7 8	(b)	Directional or panel antennas shall not exceed ten (10) feet in height or two (2) feet in width and shall be of a material or color which matches the exterior of the building or structure upon which they are mounted.
9 10	(c)	Dish antennas shall not exceed six (6) feet in diameter and shall be screened from public view.
11 12	(d)	No commercial advertising shall be allowed on any antenna.
13 14 15 16 17	(e)	Signals, lights, and/or illumination shall not be permitted on any antenna, unless required by the Federal Communications Commission (FCC), the Federal Aviation Administration (FAA), State or Federal authorities, or the County.
18 19 20 21 22 23	(f)	Cylinder shrouds for the concealment of antennas shall not exceed eleven (11) feet in height or twenty-six (26) inches in diameter and shall be of a material or color which matches the exterior of the building or structure upon which they are mounted. No portion of the antenna shall be exposed outside the shroud.
24 25 26 27 28 29 30 31 32 33 34	(g)	The related unmanned equipment structure(s) shall not contain more than five hundred (500) square feet of total gross floor area per user on each site and shall not exceed twelve (12) feet in height. If located within the building or structure upon which the antennas are mounted, they may be located in the areas which are excluded from the determination of net floor area without changing the exclusion of those areas from the calculation of the density of the structure. Such structures shall be of a material or color which matches the exterior of the building or structure upon which they are mounted.
35 36 37 38	(h)	If the equipment structure is located on the roof of a building, the area of the equipment and structures shall not occupy more than twenty-five percent (25%) of the roof area.
39 40 41	(i)	All antennas and related unmanned equipment shall be removed within ninety (90) days after such antennas or related unmanned equipment are no longer in use.

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(j) The original approved height of a monopole or tower may be increased twenty (20) feet for the collocation of telecommunications antennas, provided that the height of such monopoles and towers, including collocated antennas, shall not exceed one hundred ninety-nine (199) feet, as measured from the natural ground elevation.

- (2) Antennas, No Portion of Which Exceeds a Height of 60 Feet As Measured From Natural Ground Elevation, when Mounted on Buildings or Structures (Including Antenna Support Structures). Antennas and related unmanned equipment connected to such antennas, no portion of which exceeds a height of sixty (60) feet, as measured from the natural ground elevation, when mounted on buildings or structures (including antenna support structures), may be developed subject to the following performance standards to the extent telecommunication antennas are listed as a permitted use in the underlying zoning district:
 - (a) Omnidirectional or whip antennas shall not exceed eight and one-half (8 ¹/₂) feet in height or three (3) inches in diameter and shall be of a material or color which matches the exterior of the building or structure on which they are mounted. Such antennas shall be flush mounted so that neither the antenna nor any portion of the supporting mount shall extend more than two (2) feet from the building or structure.
 - (b) Directional or panel antennas shall not exceed five (5) feet in height or one (1) foot in width and shall be of a material or color which matches the exterior of the building or structure on which they are mounted. Such antennas shall be flush mounted so that neither the antenna nor any portion of the supporting mount shall extend more than two (2) feet from the building or structure.
 - (c) Dish antennas shall not exceed three (3) feet in diameter and shall be of a material or color which matches the exterior of the building or structure on which they are mounted.
 - (d) No commercial advertising shall be allowed on any antenna.
 - (e) Signals, lights, and/or illumination shall not be permitted on any antenna, unless required by the Federal Communications Commission (FCC), the Federal Aviation Administration (FAA), State or Federal authorities, or the County.

1 2 3 4 5 6	(f)	Cylinder shrouds for the concealment of antennas shall not exceed six (6) feet in height or fourteen (14) inches in diameter and shall be of a material or color which matches the exterior of the building or structure upon which they are mounted. No portion of the antenna shall be exposed outside the shroud.
7 8 9 10 11 12 13	(g)	No more than one (1) related unmanned equipment structure shall be located on an antenna support structure. Such related unmanned equipment structure shall not exceed five (5) feet in height or twenty (20) cubic feet in volume and shall be of a material or color which matches the exterior of the antenna support structure on which it is mounted.
14 15 16 17 18	(h)	Antennas and related unmanned equipment structures located on the roof of a building shall not exceed the building height of such building by more than fifteen (15) feet and shall not occupy more than twenty-five percent (25%) of the roof area.
19 20 21	(i)	All antennas and related unmanned equipment shall be removed within ninety (90) days after such antennas or related unmanned equipment are no longer in use.
22 23 (3		The Hub Sites. Antenna hub sites may be developed provided sites comply with the following criteria:
24 25 26 27	(a)	Related unmanned equipment at antenna hub sites shall not contain more than five hundred (500) square feet of total gross floor area and shall not exceed twelve (12) feet in height.
28 29	(b)	The maximum permitted floor area ratio for the zoning district, if applicable, shall not be exceeded.
30 31	(c)	Antenna hub sites shall meet the minimum yard requirements of the district in which they are located.
32 33 34 35	(d)	Antenna hub sites shall be compatible with development located in the surrounding visual range regarding the setting, color, lighting, topography and materials. To the maximum extent feasible, related unmanned equipment at an antenna
36 37		hub site shall be located in the interior of the property on which it is located.

1 2 3 4			feet. If equipment is added to an existing screened enclosure that contains telecommunication uses and/or structures, the screening requirements may be satisfied with the existing screening.
5 6		(f)	Antenna hub sites that are fully enclosed within a building shall not be subject to the above criteria.
7 8		(g)	Antenna hub sites shall be removed within ninety (90) days after such antenna hub sites are no longer in use.
9 10		-	Monopoles and related unmanned equipment structure(s) oped as a permitted or special exception use, as listed below:
11 12 13	(1)	by rig	Opoles, Permitted By Right. Monopoles shall be permitted ght subject to the performance criteria listed in Section 5- B)(3), in the following situations:
14 15 16		(a)	In all zoning districts, if located within an overhead utility transmission line right of way with existing structures greater than eighty (80) feet in height.
17 18 19		(b)	In the PD-OP, GB, PD-GI, PD-SA, PD-IP, PD-RDP, or MR-HI zoning districts provided it is located 750 feet or greater from an adjoining residential district.
20 21 22		(c)	In the PD-GI and MR-HI zoning districts further subject to Section 5-618(B)(4) if located less than 750 feet from an adjoining residential district.
23 24 25		(d)	In the AR, A-10, TR, JLMA-1, JLMA-2, JLMA-3, A-3, CR-1, CR-2, CR-3, CR-4, PD-TREC and RC zoning districts, when accessory to a fire or rescue station.
26 27 28 29 30 31	(2)	above subjec perfor	opoles, Special Exception Required. Except as provided e, telecommunications monopoles shall be permissible et to approval of a special exception and subject to the general rmance criteria listed in Section 5-618(B)(3) and additional ission requirements listed in 5-618(B)(4), in the following ions:
32 33 34 35 36 37		(a)	In the AR-1, AR-2, A-10, TR, JLMA-1, JLMA-2, JLMA-3, A-3, CR-1, CR-2, CR-3, CR-4, PD-TREC and RC zoning districts, except as provided in Section 5-618(B)(1)(d), and in the CLI, PD-CC(CC), PD-CC(SC), PD-CC(RC), PD-TC, PD-TRC, PD-MUB, PD-RV and PD-CV zoning districts.
38 39 40		(b)	In the PD-OP, GB, PD-SA, PD-IP and PD-RDP zoning districts when located less than 750 feet from an adjoining residential district.

1 2 3		(c)	use to	zoning districts, except PD-AAAR, as an accessory o a fire and rescue station, except as provided in on 5-618(B)(1)(d).
4 5		(d)	In all z toll roa	zoning districts, within the right of way of a private ad.
6 7		(e)		e PD-H and R zoning districts when located on rty owned by:
8 9 10 11			(i)	Any department or branch of the Federal Government, Commonwealth of Virginia, Loudoun County Government, or Loudoun County School Board; or
12			(ii)	Public Utilities.
13 14 15 16	(3)	permis	mmunic ssible w	General Performance Criteria. All cations monopoles, whether permitted by right or with the approval of a special exception application, ct to the following criteria:
17 18 19 20 21 22		(a)	compa to the archite interio	proposed telecommunications monopole shall be atible with development in the vicinity with regards setting, color, lighting, topography, materials and ecture. In addition, the facility shall be located in the or of the property and areas of existing vegetation, if able, shall be used to screen the facility.
23 24		(b)		relecommunications monopoles shall be designed to modate at least three (3) providers, unless:
25 26			(i)	Doing so would create an unnecessary visual impact on the surrounding area; or
27 28			(ii)	No additional need is anticipated for any other potential user in the vicinity; or
29 30 31			(iii)	There is some valid economic, technological, or physical justification as to why co-location is not possible.
32 33			-	pplicant shall identify the conditions under which co-location by other service providers is permitted.
34 35 36		(c)		eight of such monopole, including antennas, shall not d 199 feet, as measured from the natural ground ion.
37 38		(d)		ite and microwave dishes attached to monopoles shall ceed two (2) feet in diameter.

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1 2 3 4 5 6	(e)	Except as provided in Section $5-618(B)(3)(o)$ and Section $5-618(B)(4)(d)$, telecommunications monopoles shall not be located any closer than one (1) foot for every five (5) feet in height to any property line. Structures and buildings may be constructed within the setback areas of the monopole, provided other zoning standards are met.
7 8 9 10	(f)	The related unmanned equipment structure(s) shall not contain more than 500 square feet of total gross floor area per telecommunications provider on each site. Structures shall not exceed 12 feet in height.
11 12 13	(g)	Unless otherwise required by the Federal Communications Commission or the Federal Aviation Administration, monopoles shall blend with the background.
14 15 16 17	(h)	No signals or lights or illumination shall be permitted on a monopole, unless required by the Federal Communications Commission, the Federal Aviation Administration, State or Federal authorities, or the County.
18 19	(i)	No commercial advertising or signs shall be allowed on a monopole.
20 21 22 23 24 25	(j)	A commission permit shall be required, except when located in accordance with Section $5-618(B)(1)(a)$, provided the monopole shall not exceed the height of existing overhead utility transmission line structures by more than twenty (20) feet as measured from natural ground elevation.
26 27	(k)	No monopole shall be located within a County designated historic district.
28 29 30 31 32	(1)	All unused equipment and facilities from a commercial public telecommunications site shall be removed within 90 days of cessation of commercial public telecommunication use and the site shall be restored as closely as possible to its original condition.
33 34 35 36 37 38 39 40 41 42	(m)	Applicants for any commercial public telecommunications facility shall demonstrate that they have complied with applicable regulations of the FCC and the FAA. A finding from the FAA that the proposed facility is not a hazard or obstruction to aviation is necessary prior to the issuance of a zoning permit. If a proposed telecommunications facility is higher than 199 feet or within five (5) miles of the property boundary of either Dulles or Leesburg Airports, the applicant shall provide verification that: 1) the appropriate airport authority (Metropolitan Washington

1 2 3 4		Airports Authority or the Town of Leesburg) has been notified in writing; and 2) the FAA has determined that the proposed facility is neither a hazard nor an obstruction to aviation.
5 6 7 8 9 10 11 12 13	(n)	When locating on a Loudoun County or Loudoun County Sanitation Authority site or fire and/or rescue company site: 1) the telecommunications equipment shall not interfere with the existing telecommunications equipment of the primary use; and 2) the setback provisions of Section 5-618(B)(3)(e) shall not apply. In addition, the landscaping/buffering provisions of the Ordinance may be reduced or waived if the site has been developed in accordance with Section 5-1409(G).
14 15 16 17 18 19 20 21	(0)	Applicants proposing a new telecommunications monopole within one (1) mile of a County designated historic district or a Virginia Byway shall submit a minimum of three (3) visual simulations and written justification as to why the monopole could not be sited elsewhere. This requirement shall also be applied if a telecommunications monopole is proposed on a property listed on the National Register of Historic Places.
22 23 24 25	(p)	Telecommunications monopoles shall not be located along ridge lines, but downslope from the top of ridge lines, to protect views of the Catoctin, Bull Run, Hogback, Short Hill, and Blue Ridge Mountains.
26 27 28	(q)	Applicants shall submit documentation, in written and graphic form, regarding the service area to be provided by the proposed telecommunications monopole.
29 30 31	follow	poles, Additional Submission Requirements. The ing additional information shall be submitted by applicants propoles required to be approved by special exception.
32 33 34 35 36 37 38	(a)	The applicant shall provide photoimagery or other visual simulation of the proposed telecommunications monopole shown with the existing conditions of the site. This simulation shall be provided from a minimum of three (3) perspectives. The applicant shall address how the facility can be designed to mitigate the visual impact on area residents, facilities, and roads.
39 40 41 42 43	(b)	Except for areas where permitted by right, an applicant for a new commercial public telecommunication monopole shall demonstrate that location on an existing telecommunications facility or structure greater than 40 feet in height is not feasible. The applicant shall evaluate

1 telecommunications facilities and structures greater than 2 40 feet in height within a one (1) mile radius of the 3 proposed facility within the Eastern Loudoun Urban 4 Growth Area. Elsewhere in the County, the applicant shall 5 evaluate these locations within a two (2) mile radius of the 6 proposed facility. Technological, physical, and economic 7 constraints may be considered in determining infeasibility. 8 Co-location may be determined to be infeasible in the 9 following situations: 10 (i) Planned equipment would exceed the structural existing 11 capacity of and approved telecommunications facilities, considering existing 12 13 planned use of those facilities, and such facilities cannot be reinforced to accommodate planned or 14 equivalent equipment at a reasonable cost; 15 16 (ii) Planned equipment will cause interference with other existing or planned equipment for that 17 telecommunications facility, and that interference 18 19 cannot be prevented at a reasonable cost; 20 (iii) Existing or approved telecommunications facilities do not have space on which planned equipment can 21 22 be placed so as to provide adequate service; and 23 (iv) Existing and approved telecommunications facilities will not provide adequate signal coverage. 24 25 (c) In addition to those entitled to notice under the provisions of Section 6-600 of this Ordinance, all owner(s), or their 26 27 agent(s), of all properties abutting or immediately and diagonally across the street or road from those properties 28 29 whose owners are entitled to notice under Section 6-600, shall be provided with the same written notice. 30 The 31 applicant is also encouraged to meet with community and 32 homeowners association groups in the area. 33 (d) Telecommunications monopoles permissible by special 34 exception pursuant to Section 5-618(B)(2)(d) shall not be 35 subject to the lot requirements, building requirements, and 36 open space requirements, if applicable, of the zoning 37 district in which they are located. 38 (C) Telecommunications Towers. Telecommunications towers with related 39 unmanned equipment structure(s) may be developed as a permitted or 40 special exception use as listed below, subject to the performance standards 41 of this section.

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1 2 3	(1)	Transr	Ommunications Towers, Permitted By Right. nission towers shall be permitted by right subject to the mance criteria listed in Section 5-618(C)(3):
4 5 6		(a)	In the MR-HI and PD-GI zoning districts if the tower is forty (40) feet or less in height and is mounted on an existing structure.
7 8 9 10		(b)	In the MR-HI and PD-GI zoning districts if the tower is greater than forty (40) feet in height and will be further subject to the performance standards of Section $5-618(C)(4)$.
11 12 13 14	(2)	Telecc except	communications Towers, Special Exception Required. Immunications towers shall be permissible by special tion subject to the performance standards listed in Sections $(C)(3)$ and 5-618 $(C)(4)$ in the following situations:
15 16 17 18		(a)	In the A-10, AR-1, AR-2, TR, JLMA-1, JLMA-2, JLMA-3, A-3, CR-1, CR-2, CR-3, CR-4, RC, CLI, PD-CC(CC), PD-CC(SC), PD-CC(RC), PD-TC, PD-TREC, PD-MUB and PD-TRC zoning districts.
19 20		(b)	In the PD-OP, GB, PD-SA, PD-IP and PD-RDP zoning districts.
21 22		(c)	In all zoning districts, except PD-AAAR, PD-RV and PD-CV, as an accessory use to a fire and rescue station.
23 24		(d)	In the PD-H and R zoning districts when located on property owned by:
25 26 27 28			 (i) Any department or branch of the Federal Government, Commonwealth of Virginia, Loudoun County Government, or Loudoun County School Board; or
29			(ii) Public Utilities.
30 31 32 33	(3)	All tel permis	ommunications Towers, General Performance Criteria. lecommunications towers, whether permitted by right or ssible with the approval of a special exception application, be subject to the following criteria:
34 35 36 37 38 39		(a)	The telecommunications tower shall be compatible with development in the vicinity with regards to the setting, color, lighting, topography, materials and architecture. In addition, the facility shall be located in the interior of the property and areas of existing vegetation, if applicable, shall be used to screen the facility.

1 2	(b)		telecommunications towers shall be designed to modate at least three (3) providers, unless:
3 4		(i)	Doing so would create an unnecessary visual impact on the surrounding area; or
5 6		(ii)	No additional need is anticipated for any other potential user in the vicinity; or
7 8 9		(iii)	There is some valid economic, technological, or physical justification as to why co-location is not possible.
10 11		-	oplicant shall identify the conditions under which co-location by other service providers is permitted.
12 13 14 15 16 17 18	(c)	exceed elevati the fac service	mmunications towers, including antennas, shall not 199 feet, as measured at the natural ground on, unless the applicant can clearly demonstrate that cilities of 199 feet or less cannot render needed es. At the applicant's expense, the County may have lependent analysis performed on the applicant's al.
19 20	(d)		te and microwave dishes attached to the towers shall ceed six (6) feet in diameter.
21 22 23 24 25	(e)	be set from the constru	as provided in Section $5-618(C)(3)(o)$, towers shall back one (1) foot for every five (5) feet in height he property line. Structures and buildings may be acted within the setback area of the tower, provided coning standards are met.
26 27 28 29	(f)	contair per tel	elated unmanned equipment structure(s) shall not a more than 500 square feet of total gross floor area ecommunications provider on each site. Structures ot exceed 12 feet in height.
30 31 32 33	(g)	Comm	otherwise required by the Federal Communications ission or the Federal Aviation Administration, nmunications towers shall blend with the ound.
34 35 36 37	(h)	monop Comm	nals or lights or illumination shall be permitted on a oole, unless required by the Federal Communications ission, the Federal Aviation Administration, State or l authorities, or the County.
38	(i)	No cor	nmercial advertising shall be allowed on the tower.
39	(j)	A com	mission permit shall be required.

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- (k) No transmission tower shall be located within a County designated historic district.
- (1) No tower shall be located within a PD-RV zoning district.
- (m) All unused equipment and facilities shall be removed from a commercial public telecommunications site within 90 days of cessation of commercial public telecommunication use and the site shall be restored as closely as possible to its original condition.
- Applicants for any commercial public telecommunications (n) facility shall demonstrate that they have complied with applicable regulations of the FCC and the FAA. A finding from the FAA that the proposed facility is not a hazard or obstruction to aviation is necessary prior to the issuance of a zoning permit. If a proposed telecommunications facility is higher than 199 feet or within five (5) miles of the property boundary of either Dulles or Leesburg Airports, the applicant shall provide verification that: 1) the appropriate airport authority (Metropolitan Washington Airports Authority or the Town of Leesburg) has been notified in writing; and 2) the FAA has determined that the proposed facility is neither a hazard nor an obstruction to aviation.
- (o) When locating on a Loudoun County or a Loudoun County Sanitation Authority site or fire and/or rescue company site: 1) the telecommunications equipment will not interfere with the existing telecommunications use of the primary use; and 2) the setback provision of Section 5-618(C)(3)(e) does not apply. In addition, the landscaping and buffering provisions of the Ordinance may be reduced or waived if the site is developed in accordance with Section 5-1409(G).
- (p) Applicants proposing a new telecommunications tower within one (1) mile of a County designated historic district or Virginia Byway shall provide a minimum of three (3) visual simulations and written justification as to why the tower could not be sited elsewhere. This requirement shall also be applied if a telecommunications tower is proposed on a property listed on the National Register of Historic Places.
- (q) Telecommunications towers shall not be located along ridge lines, but downslope from the top of ridge lines, to protect views of the Catoctin, Bull Run, Hogback, Short Hill, and Blue Ridge Mountains.

- (r) Applicants shall submit documentation, in written and graphic form, regarding the service area to be provided by the proposed telecommunications tower.
- (4) **Telecommunications Towers, Additional Submission Requirements.** The following additional performance standards shall apply to transmission towers when approved by special exception:

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- (a) The applicant shall provide photoimagery or other visual simulation of the proposed facility shown with the existing conditions of the site. This simulation shall be provided from a minimum of three (3) perspectives. The applicant shall address how the facility can be designed to mitigate the visual impact on area residents, facilities, and roads.
- Except for areas where permitted by right, an applicant for (b) a new commercial public telecommunication monopoles that location an shall demonstrate on existing telecommunications facility or structure greater than 40 feet in height is not feasible. The applicant shall evaluate telecommunications facilities and structures greater than 40 feet in height within a one (1) mile radius of the proposed facility within the Eastern Loudoun Urban Growth Area. Elsewhere in the County, the applicant shall evaluate these locations within a two (2) mile radius of the proposed facility. Technological, physical, and economic constraints may be considered in determining infeasibility.

Co-location may be determined to be infeasible in the following situations:

- (i) Planned equipment would exceed the structural capacity of existing and approved telecommunications facilities, considering existing planned use of those facilities, and such facilities cannot be reinforced to accommodate planned or equivalent equipment at a reasonable cost;
- (ii) Planned equipment will cause interference with other existing or planned equipment for that telecommunications facility, and that interference cannot be prevented at a reasonable cost;
- (iii) Existing or approved telecommunications facilities do not have space on which planned equipment can be placed so as to provide adequate service; and
- (iv) Existing and approved telecommunications facilities will not provide adequate signal coverage.

1 2 3 4 5 6 7 8				(c)	In addition to those entitled to notice under the provisions of Section 6-600 of this Ordinance, all owner(s), or their agent(s), of all properties abutting or immediately and diagonally across the street or road from those properties whose owners are entitled to notice under Section 6-600, shall be provided with the same written notice. The applicant is also encouraged to meet with community and homeowners association groups in the area.
9 10 11 12				(d)	Applicants for new telecommunications towers shall demonstrate that a telecommunications monopole, of comparable transmission capabilities, cannot be utilized or cannot provide an equivalent level of service.
13	5-619	Rural	Corpo	rate Re	treat.
14 15 16 17		(A)	agricul suppor	ltural co tive of	Intent. The purpose of this section is to provide for rural orporate retreat facilities that will be compatible with, and the primary land use of agriculture, forestry, open space e preservation.
18 19 20 21 22 23			(1)	ameni distric is ence restore	tural Corporate Retreat is intended to promote the rural ties of the AR, A-3, A-10, TR-10, JLMA-3 and JLMA-20 ts as an ideal work place. The Rural Corporate Retreat user ouraged to incorporate existing structures, which could be ed and maintained into the retreat facilities to preserve the ng rural character.
24 25 26 27 28 29 30			(2)	TR-10 and av meet s below of sub	Corporate Retreats shall be permitted in the AR, A-3, A-10, , JLMA-3 and JLMA-20 districts on the basis of land size rerage daily users. Permitted Rural Corporate Retreats shall pecific development criteria outlined in subsection 5-619(C) . Any Rural Corporate Retreat that does not meet the criteria psection 5-619(C), may be permitted subject to special tion approval.
31 32 33 34			(3)	proces Retrea	ural Corporate Retreat use shall not involve the handling or using of hazardous or toxic materials. The Rural Corporate t use shall comply with the applicable performance rds of Section 5-1500.
35		(B)	Rural	Corpo	rate Retreat Development Criteria.
36			(1)	Minin	num Acreage. The minimum acreage shall be 50 acres.
37 38 39			(2)	shall b	Space. A minimum of 75% of the total property acreage e kept in an agricultural, forestry, open space, and/or historic vation use.

- 1 (3) Frontage and Access. The property on which the Rural Corporate 2 Retreat is located shall have frontage and access on a statemaintained road. 3 4 (4) Floor Area Ratio. The maximum floor area ratio shall be 0.04. 5 The total acreage shall be used for determining the permitted floor 6 area. 7 (5) **On-Site Food Services.** The retreat facilities may provide on-site 8 food service for employees and retreat visitors, but may not contain 9 restaurant facilities open to the general public. 10 (6) Setbacks. All retreat facilities buildings shall be set back a 11 minimum of 200 feet from adjacent properties. Storage Areas. Storage areas related to the retreat facilities shall 12 (7) be permitted. 13 The retreat facilities use may include training 14 (8) **Programs**. 15 programs, seminars, and similar activities. 16 (9) Special Events. Special events shall receive approval pursuant to 17 Section 5-500, unless the facility meets the requirements of Section 5-642. 18 19 Products Sold On-Site. No products shall be sold on-site except (10)20 those that are clearly incidental and integral to the purpose and 21 program of the retreat. 22 **One Principal Dwelling.** No more than one principal dwelling (11)23 unit shall be permitted. Tenant dwellings shall be permitted in accord with Section 5-602. 24 25 (12)**On-Site Recreation.** The retreat facilities may provide on-site recreation facilities to be used solely by employees and visitors, 26 27 but not by the general public. 28 (13)Average Daily User and Acreage Ratio: 100 users per 50 acres. 29 Notwithstanding, there shall be no more than 450 users on greater 30 than 200 acres without first securing special exception approval. The term Average Daily Users includes employees and visitors to 31 the site. Service trips, such as food or supply deliveries, package 32 delivery, and similar trips are in addition to the average daily users. 33 34 (14)Exclusions. Buildings or structures used exclusively for 35 agricultural use, the principal dwelling unit, and tenant dwellings are excluded from these requirements and from the floor area ratio 36 37 calculations. 38
 - (C) Sketches, Site Plans, Special Exceptions and Statements of Use.

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1 2 3 4 5 6 7 8 9 10 11 12 13			(1) Sketch Plan. A sketch plan is required as a part of a zoning permit application for permitted Rural Corporate Retreats. Sketches shall include an accurate drawing of all aspects of the Rural Corporate Retreat including the size and dimensions of buildings; the size and dimensions of land area devoted to the Rural Corporate Retreat use; the size and dimensions of the land to be maintained in agricultural, forestry, open space, and/or historic preservation use; the size and dimensions of parking areas; building setbacks; the size, dimension, and location of any signs; and the approximate location of any on-site major floodplain as determined from the County flood plain map. In addition, the sketch plan shall include the required information needed to illustrate conformance with the Rural Corporate Retreat regulations of this Section 5-619.
14 15 16 17 18			(2) Statement of Use. For all Rural Corporate Retreats, a statement of use shall be filed in conjunction with the sketch or site plan. The statement of use shall define the operations of the Rural Corporate Retreat and shall outline how the use meets the development criteria.
19 20	5-620		ifactured Housing. The following standards shall apply to the development nufactured housing:
21 22		(A)	Homes shall be a minimum of 900 square feet in floor area, and a minimum of 19 feet in width.
23 24		(B)	Roofs shall be pitched with a minimum vertical rise of four inches for each twelve inches of horizontal run.
25 26		(C)	Exterior materials shall be of a color, material and scale compatible with site-built, single family construction.
27 28 29		(D)	Homes shall have a non-reflective roof material which is or simulates asphalt or wood shingles, tile or slate or other products as used in surrounding areas.
30 31 32		(E)	All homes shall have a pitched roof with a minimum of either a 6" overhang and a 4" gutter or 12" overhand on the front and back and a minimum of 6" on the sides.
33 34 35		(F)	Perimeter non-load bearing foundation enclosures shall be compatible with foundation materials on site-built residential structures, and shall be limited to masonry, stone or concrete.
36 37 38		(G)	Homes shall have wheels, axles, transporting lights, and removable towing apparatus removed from the site, and shall be placed on a permanent foundation.
39 40		(H)	Storage areas for RV unit shall be provided on a separate lot. If such lot is exterior to the development it shall be effectively buffered from the

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1 2			street and adjacent dwellings. If the storage area is located on an interior lot, the buffering shall not be required.
3 4		(I)	Manufactured homes in the AR-1, AR-2, A-3, A-10, and TR-10 districts shall not be subject to this section.
5 6 7	((J)	Nothing in this subsection shall be deemed to supersede valid restrictive covenants of record, except that a manufactured home built in accordance with the HUD code shall not be deemed a mobile home.
8 9			Utilities. Lot requirements for Municipal Corporations, VDOT, LCSA, Utilities and Public Service Corporations.
10 11		(A)	In all zoning districts, public utilities shall be located on lots of one half $(1/2)$ acre or more.
12	((B)	Buffer Yard RequirementsLandscaping/Buffering/Screening.
13 14			(1) All utility facilities, except Water well, municipal, shall have a minimum <u>Buffer Yard</u> Type Four (4) <u>C</u> -Buffer Yard.
15 16 17 18 19 20 21			(2) Water well, municipal shall have a minimum <u>Buffer Yard</u> Type One (1) <u>A</u> <u>Buffer Yard</u> if the well area includes other accessory structures or buildings. Side and rear buffer yards shall be supplemented with an additional two (2) evergreen trees per 100 <u>lineal linear</u> feet. The required buffer may surround the Water well, municipal, use, rather than around the perimeter of the lot or parcel as required by Section 5-1407(A).
22		(C)	Such utilities may be accessed by private access easement.
23		(D)	Utility Substations are governed by Section 5-616 of this Ordinance.
24 25 26 27 28 29 30 31 32 33		(E)	Water well, municipal. Prior to approval of the first site plan for a new Water well, municipal use, an Applicant shall complete the testing and reporting requirements of either Section $5-621(E)(1)$ or Section $5-621(E)(2)$, below, with the choice of either the $(E)(1)$ or the $(E)(2)$ testing to be at Applicant's discretion, and shall provide the results to the Director of the Department of Building and Development in conjunction with the said site plan application: Such tests shall be required to be conducted only during the initial testing period prior to the approval of a site plan for a new municipal water well and shall not require continuous monitoring of off-site wells after site plan approval.
34 35 36 37 38			(1) Yield and Drawdown Tests as required by the Virginia Department of Health-Office of Drinking Water, and monitoring of existing private wells within 500 feet of the proposed well, as recommended by the Virginia Department of Health–Office of Drinking Water and with the consent of the property owner; or

1 2 3 4 5 6			(2)	6.240. Backg Sectio the Fa be con	drogeologic Report prepared in accordance with Section A (Background Information), Section 6.240.B (Analysis of round Information), Section 6.240.E (Pumping Test), and n 6.240.G (Groundwater monitoring program proposal) of cilities Standards Manual. Monitoring of private wells is to aducted only with the consent of the property owner.
7	5-622	Maga	zine Co	ontaineo	d Explosive Facilities.
8 9 10 11 12		(A)	magaz A-3 zc comm	tine con oning di ercial b	Intent. The intent of this section is to allow businesses with tained explosives storage facilities to be located within the strict, while preserving the rural character of the district. A usiness operation requiring a magazine contained explosives be located in a commercial or industrial zoning district.
13 14 15 16 17		(B)	magaz unifieo	tine con d owner tion app	ntrol. In order to qualify for a special exception as a trained explosives facility, the applicant shall demonstrate rship/control of the parcel that is the subject of the special dication and the commercial business operation cited in (A)
18		(C)	Site D	evelop	ment Criteria.
19 20 21 22 23 24 25 26			(1)	of mag of three event a the reg "Virgi	ge. The minimum gross acreage of a parcel used for storage gazine contained explosives shall be 50 acres. A minimum ee acres shall be located outside of major floodplain. In no shall the acreage be less than that necessary to comply with gulations contained in the most current adopted edition of the nia Statewide Fire Prevention Code" (VSFPC) and all other able state and local codes and ordinances whichever is more tive.
27			(2)	Setba	cks.
28 29 30 31				(a)	Adjacent to Roads. No magazine facility or loading area shall be permitted closer than 500 feet to the right-of-way of a state maintained road or the minimum setback contained in the VSFPC, whichever is more restrictive.
32 33 34				(b)	Adjacent to Other Properties. No magazine facility shall be permitted closer than 350 feet or the minimum setback contained in the VSFPC, whichever is more restrictive.
35 36			(3)		s. Magazine Contained Explosives Facilities may be located s accessed by private access easement.
37 38 39		(D)	magaz	ruction tine for t	and Placement. Construction and Placement of a the containment of explosives shall conform to all applicable eral requirements.

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1 2 3 4 5 6 7		(E)	Open Space. Except for those areas established for the approved magazine facility on the special exception plat, the remainder of the parcel shall be maintained for agricultural, horticultural, and forestry uses during the term of the special exception. Uses and structures accessory to the magazine facility and an agricultural, horticultural, and/or forestry use on the property may be permitted, including security buildings, barns and one single family dwelling.
8 9 10		(F)	Conveyance. Approval of a special exception or zoning permit pursuant to this section shall not convey with the transfer of the property or business which are the subject of these applications
11	5-623	PD-I	P Private School Notification Standards.
12 13 14		(A)	Purpose and Intent. Operators of a private school located within a PD-IP District must notify all applicants, at the time of application, of the potential permitted and special exception uses within such a district.
15 16 17 18 19 20		(B)	Standard Notification. The notification document shall include a list of the uses permitted within the industrial zone. The document shall include a section that requires prospective student's parent to sign a statement stating that they have reviewed or have been offered the opportunity to review this document. Said document shall remain on file at the school for the period of the student's enrollment.
21	5-624	Vehic	cle Wholesale Auction.
22		(A)	Locational Criteria.
23 24			(1) Vehicle wholesale auctions shall be located on a public, paved road capable of accommodating the traffic generated by the use.
25 26 27 28			(2) Vehicle wholesale auctions shall be located on parcels where at least a portion of the parcel is located within the noise contour areas of the Airport Impact Overlay District, as existing at the time of initial site plan approval.
29 30			(3) Vehicle wholesale auctions shall be located on a parcel with an area of 50 acres or more.
31		(B)	Site Development Criteria.
32 33 34			(1) Any car-carrier loading/unloading area and vehicle storage areas shall be located separately from the customer parking areas, and such areas shall be identified with directional signage.
35			(2) The use shall be served by public sewer.
36			(3) Car washing associated with the use shall utilize recycled water.

1 (4) The sale and/or storage of vehicles that are not in operating condition shall not be permitted. 3 (5) Outdoor vehicle storage, parking spaces, and loading spaces shall be specifically identified on an approved site plan and shall be limited to such areas. 6 (6) Outdoor vehicle storage shall be setback at least 100 feet from any road right-of-way. 8 (7) The test driving of all vehicles shall be conducted on-site. 9 (8) Netwithstanding the requirements of Section 5 1400, no structure shall be required in the rear-or-side Type 4 Buffer Yards when adjacent to areas of Dulles Airport. 11 (9) (8) Vehicle wholesale auctions shall not be conducted before 8:00 a.m., after 6:00 p.m., or on Saturdays or on Sundays. 14 5-625 Winery, Commercial. Commercial wincrises in the AR, JMLA, and Route 28 CO, PD-CM and CB districts shall comply with the following standards: 16 (A) Intensity/Character. (1) Site Size. The minimum lot area for a commercial winery is 10 acres. 19 (2) Wine Tasting Rooms and Accessory Food Sales. Facilities for wine tasting rooms and accessory food sales (including a kitchen) shall not exceed 49 percent of the total gross floor area of all structures at the commercial winery. 23 (3) Hours of Operation. Hours of operation shall be limited to 10:00 a.m. to 10:00 p.m. 24 (2) Size of Use. 25 (3) Size of Use. 26 (1) Floor Area Ratio. The floor area ratio	1					
4 be specifically identified on an approved site plan and shall be limited to such areas. 6 (6) Outdoor vehicle storage shall be setback at least 100 feet from any road right-of-way. 8 (7) The test driving of all vehicles shall be conducted on-site. 9 (8) Notwithstanding the requirements of Section 5-1400, no structure shall be required in the rear or side Type 4 Buffer Yards when adjacent to areas of Dulles Airport. 12 (9)(8) Vehicle wholesale auctions shall not be conducted before 8:00 a.m., after 6:00 p.m., or on Stundays or on Sundays. 14 5-625 Winery, Commercial. Commercial wincrise in the AR, JMLA, and Route 28 CO, PD-CM and CB districts shall comply with the following standards: 16 (A) Intensity/Character. 17 (1) Site Size. The minimum lot area for a commercial wincry is 10 acres. 19 (2) Wine Tasting Rooms and Accessory Food Sales. Facilitics for wine tasting rooms and accessory food sales (including a kitchen) shall not exceed 49 percent of the total gross floor area of all structures at the commercial winery. 23 (3) Hours of Operation. Hours of operation shall be limited to 10:00 a.m. to 10:00 p.m. 25 (B) Size of Use. 26 (1) Floor Area Ratio. The floor area ratio for a commercial winery shall not exceed 20 percent of the total area of storage yards shall not exceed 2	l	1 2			(4)	
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15 PD-CM and CB districts shall comply with the following standards: 16 (A) Intensity/Character. 17 (1) Site Size. The minimum lot area for a commercial winery is 10 acres. 19 (2) Wine Tasting Rooms and Accessory Food Sales. Facilities for wine tasting rooms and accessory food sales (including a kitchen) shall not exceed 49 percent of the total gross floor area of all structures at the commercial winery. 23 (3) Hours of Operation. Hours of operation shall be limited to 10:00 a.m. to 10:00 p.m. 25 (B) Size of Use. 26 (1) Floor Area Ratio. The floor area ratio for a commercial winery shall not exceed 0.04. 28 (2) Storage Yards. The total area of storage yards shall not exceed 20 percent of the total area of the principal structure. 30 (C) Location on Site/Dimensional Standards. A commercial winery shall be set back at least 125 feet from all lot lines. 32 (D) Landscaping/Buffering/Screening. 33 (1) Buffer. The use shall comply with the landscaping and screening					(9)<u>(8)</u>	
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20wine tasting rooms and accessory food sales (including a kitchen) shall not exceed 49 percent of the total gross floor area of all structures at the commercial winery.23(3)Hours of Operation. Hours of operation shall be limited to 10:00 a.m. to 10:00 p.m.25(B)Size of Use.26(1)Floor Area Ratio. The floor area ratio for a commercial winery 					(1)	
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 29 20 percent of the total area of the principal structure. 30 (C) Location on Site/Dimensional Standards. A commercial winery shall be set back at least 125 feet from all lot lines. 32 (D) Landscaping/Buffering/Screening. 33 (1) Buffer. The use shall comply with the landscaping and screening 					(1)	
 31 be set back at least 125 feet from all lot lines. 32 (D) Landscaping/Buffering/Screening. 33 (1) Buffer. The use shall comply with the landscaping and screening 					(2)	
33 (1) Buffer. The use shall comply with the landscaping and screening				(C)		•
		32		(D)	Lands	scaping/Buffering/Screening.
					(1)	

1 2 3			(2)	Parking and Storage Areas. Parking <u>areas shall comply with</u> <u>Section 5-1407. Sand storage areas shall be screened to comply</u> with the requirements of Section 5-653(B).1406.
4		(E)	Road	s/Access Standards.
5 6			(1)	General Access Standards. A commercial winery shall comply with the road access standards of Section 5-654.
7 8 9			(2)	Driveways. Driveways to a commercial winery shall not be located within a required buffer yard area except as minimally necessary to access the site.
10 11			(3)	Vehicles/Equipment. Commercial wineries that use heavy equipment shall have direct access to a paved public road.
12 13		(F)		tior Lighting Standards. All exterior lighting shall comply with the ards of Section 5-652(A) (Exterior Lighting Standards).
14		(G)	Parki	ing.
15 16			(1)	General. Parking and loading shall be provided as required by Section 5-1102.
17 18			(2)	Surface. All parking shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
19	5-626	Agric	ulture,	Horticulture and Animal Husbandry.
20		(A)	Parce	el Size.
21 22			(1)	Agriculture, Horticulture and Animal Husbandry uses shall have no minimum lot size.
23 24 25 26			(2)	Animal Husbandry shall not be permitted on a parcel of less than five (5) acres in size unless such parcel has obtained an approved Conservation Farm Plan with a Best Management section as described in Section 5-626(B) below.
27 28 29 30 31 32 33 34 35 36 37 38		(B)	Husba parcel as a fa and w the V of suc the ty and pu septic be in	ervation Farm Plan. Prior to the establishment of an Animal andry use on a property of less than five (5) acres the owner of the I shall be required to execute a Conservation Farm Plan (also known arm management plan) including a waste management plan, through with the Loudoun Soil and Water Conservation District (SWCD) and irginia Cooperative Extension Service (VCES) and provide a copy the executed Plan to the Zoning Administrator. The Plan shall indicate pes and quantity of proposed animals, location and size of existing roposed structures, grazing areas, and location and type of wells and fields and reserve septic fields. A Best Management section shall cluded identifying the best management practices necessary to ort the proposed types and quantity of animals. Review of the Plan

shall take into consideration the type and construction of any wells, septic fields and reserve septic fields and environmental features such as steep slopes, rock outcroppings and streams. The Best Management Section shall be reviewed by the Virginia Cooperative Extension Service to confirm that it is consistent with generally accepted Animal Husbandry standards and documentation indicating such confirmation shall be provided to the Zoning Administrator. After approval, no additional animals may be added to the site without an approved amendment to the Plan.

(C) Setbacks for Certain Structures. No structure for housing livestock including barns, run-in sheds, stables, and the like shall be located closer than 60 feet from the property line of an adjoining lot where a residential dwelling existing or under construction at the time of construction of the structure is the principal use. This setback shall not apply if such residential dwelling is located more than 60 feet from the property line adjoining the structure.

175-627Agriculture Support Uses (Direct Association with Agriculture, Horticulture18or Animal Husbandry).

(A) Intensity/Character.

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- (1) In Association with On-Going Agriculture, Horticulture, or Animal Husbandry Use. The agriculture support use (direct association) shall be allowed only in direct association with an ongoing agriculture, horticulture, or animal husbandry use or activity.
- (2) **Site Size.** The minimum lot area for any agriculture support use (direct association) shall be 5 acres, except the following uses shall have the following minimum lot area:

Use	Lot Area (Minimum)
Equestrian Event Facility	25 acres
Stable, Livery	25 acres

(3) **Visitors/Customers/Parking Spaces.** The minimum lot area shall increase based on the number of visitors/customers attracted to the use, as follows:

Use	Scope of Use/Event	Lot Area (Minimum)
Level I—	No more than 200 visitors on any one	5 acres, up to 25
small scale	day; no more than 100 vehicles allowed	
	on site at any one time.	

Use	Scope of Use/Event	Lot Area (Minimum)
Level II—	> 200 visitors on any one day, no more	>25 acres, up to
medium scale	than 400; no more than 200 vehicles	50
	allowed on site at any one time.	
Level III—	> 400 visitors on any one day, no more	>50 acres, up to
large scale	than 600; no more than 300 vehicles	100
	allowed on site at any one time, except	
	4 additional visitors and 2 additional	
	vehicles allowed per acre in excess of	
	100 acres.	

- (4) **Hours of Operation.** Hours of operation for any agriculture support use (direct association) shall be limited to the hours from 6:00 a.m. to 9:00 p.m.
- (5) **Owner.** The agriculture support use (direct association) shall be operated or maintained by the owner or occupant of the land upon which the primary associated agriculture, horticulture, or animal husbandry use is being conducted.
- (B) Size of Use.

(1) **Structure.** The size of structures used in the agricultural support use (direct association) shall not exceed the following gross floor area (total all structures):

Use	Lot Area	Size of Structures (Maximum)
Level I—small scale	5 to 25 acres	12,000 square feet
Level II—medium scale	>25 acres, up to 50 acres	24,000 square feet
Level III—large scale	> 50 acres, up to 100 acres. Additional structure size allowed by right at rate of 2,400 square feet per 10 acres in excess of 100 acres, up to 48,000 square feet in total structure size for agriculture support (direct association uses)	36,000 square feet

Storage Areas. The total area of all storage areas used in the agricultural support use (direct association) shall not exceed the following size in square feet:

Use	Lot Area	Size of Structures (Maximum)		
Level I—small scale	5 to 25 acres	5,000 square feet		
An additional 1,000 square feet of storage area shall be allowed by right for				
each additional 10 acres, not to exceed a maximum of 20,000 square feet.				

(2)

(C) Location on Site/Dimensional Standards. Structures or storage areas of an agricultural support use (direct association) shall be set back from lot lines as follows:

Use	Lot Area (Min.)	Size of Structures (Max.)	Setback from Lot Lines
Level I—small scale	5 to 25 acres	12,000 square feet	60 ft.
Level II—medium scale	>25 acres, up to 50 acres	24,000 square feet	120 ft.
Level III—large scale	> 50, up to 100 acres	36,000 square feet	175 ft.

- (D) Landscaping/Buffering/Screening.
 - (1) **Buffer.** The use shall comply with the landscaping and screening standards of Section 5-653(A). -1404(A)(6)
 - (2) **Storage Areas.** All storage areas shall be screened and landscaped consistent with the standards of shall comply with Section 5-653(C).5-1406.

(E) Road/Access Standards.

- (1) General Access Standards. An agriculture support use (direct association) shall comply with the road access standards of Section 5-654.
- (2) **Driveways.** Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
- (3) **Vehicles/Equipment.** Any agricultural support use (direct association) that involves the use of or services heavy equipment shall have direct access to a paved public road maintained by the state. Direct access shall not be provided by a private easement.
- (F) **Exterior Lighting Standards.** All exterior lighting shall comply with the standards of Section 5-652(A) (Exterior Lighting Standards).
- (G) Noise Standards. The use shall comply with the noise standards of Section 5-652(B) (Noise Standards).
 - (H) **Hazardous Chemicals, Pesticide Use.** The use and application of herbicides, pesticides, and potentially hazardous chemicals and substances such as paints and solvents shall be prohibited within the required buffer.
- (I) **Parking.**
 - (1) **General.** Parking shall be provided as required by Section 5-1102.

- (2) **Surface.** All parking areas serving the agricultural support use (direct association) shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
- **5-628** Farm Based Tourism. Farm based tourism uses in the AR, TR, JLMA, and Route 28 CO, PD-CM and CB districts shall comply with the following standards:

(A) Intensity/Character Standards.

- (1) **Site Size.** The minimum lot area for a farm based tourism use shall be 5 acres.
- (2) **Visitors/Customers/Parking Spaces.** The lot area shall increase based on the number of visitors/customers attracted to the use, as follows:

Use	Scope of Use/Event	Lot Area Requirement
Level I—	No more than 300 visitors on any	>5 acres, up to 40
small scale	one day; no more than 150 vehicles	
	allowed on site at any one time.	
Level II—	> 300 visitors daily, no more than	>40 acres, up to 80
medium scale	600 visitors on any one day; no	
	more than 300 vehicles allowed on	
	site at any one time.	
Level III—	> 600 visitors daily, no more than	>80 acres
large scale	800 visitors on any one day; no	
	more than 400 vehicles allowed on	
	site at any one time.	

- (3) **Hours of Operation.** Hours of operation shall be limited to 8:00 a.m. to 6:00 p.m.
- (4) **Owner.** The farm based tourism use shall be operated or maintained by the owner, operator, or occupant of the land upon which the primary associated agriculture, horticulture or animal husbandry use is being conducted.

(B) Size of Use Standards.

(1) Structure.

(a) The size of structures used for the farm based tourism use shall not exceed the following gross floor areas (total all structures):

Use	Lot Area (Minimum)	Size of Structures (Maximum)
Level I—small scale	5 acres, up to 40 acres	Up to 5,000 square feet
Level II—medium	>40 acres, up to 80 acres	> 5,000 square feet, up
scale		to 7,500 square feet

Use		Lot Area (Minimum)	Size of Structures (Maximum)
Level scale	III—large	>80 acres	> 7,500 square feet, up to 10,500 square feet

(2) **Storage Areas.** The total area of all storage areas shall not exceed 25 percent of the total floor area of the structures used for the farm based tourism use.

(C) Location on Site/Dimensional Standards.

(1) **Lot Lines.** Structures for farm based tourism uses shall be set back from lot lines as follows:

Use	Size of Structures	Setback from
	(Maximum)	Lot Lines
Level I—small scale	Up to 5,000 square feet	100 ft.
Level II—medium	>5,000 square feet up to 7,500	150 ft.
scale	square feet	
Level III—large	>7,500 square feet, up to 10,000	200 ft.
scale	square feet	

(D) Landscaping/Buffering/Screening.

- (1) **Buffer.** The use shall comply with the landscaping and screening standards of Section 5-653(A).1404(A)(6).
- (2) **Parking Areas.** Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
- (3) **Storage Areas.** All storage areas shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.

(E) Road/Access Standards.

- (1) **General Access Standards.** Farm based tourism uses shall comply with the road access standards of Section 5-654.
- (2) **Driveways.** Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
- (F) **Exterior Lighting Standards.** All exterior lighting shall comply with the standards of Section 5-654(A) (Exterior Lighting Standards).

(G) Parking.

- (1) **General.** Parking shall be provided as required by Section 5-1102.
- (2) **Surface.** All parking areas shall use a dust-free surfacing material as provided in the Facilities Standards Manual.

1		(H)	A structure existing prior to January 7, 2003, that is: 1) located within a
2			County Historic Site (HS) District or Historic and Cultural Conservation
3			(HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing
4			in the Virginia Landmarks Register (VLR) or the National Register of
5			Historic Places (NRHP); or 3) listed or eligible for listing as a contributing
6			resource to a VLR or NRHP listed or eligible Historic District, may be
7			used for Farm Based Tourism and shall be exempt from the minimum lot
8			area and Level I lot area and setback from lot lines requirements, provided
9			that any expansion or enlargement of such structure shall not exceed 15%
10			of the total floor area existing prior to January 7, 2003. Documentation
11			shall be provided to the Zoning Administrator demonstrating that the
12			Virginia Department of Historic Resources has confirmed the listing or
13			eligibility of structures.
14	5-629	Sawn	nills. Sawmills shall comply with the following standards.

- 15 (A) Intensity/Character Standards.
 - (1) **Site Size.** The minimum lot area for a sawmill shall be 12 acres.
 - (2) **Customers/Parking Spaces.** The minimum lot area shall increase based on the number of customers attracted to the use, as follows.

Use	Scope of Use/Event	Lot Area (Minimum)
Level I—small	No more than 25 customers on any	12 acres
scale	one day; no more than 13 vehicles	
	allowed on site at any one time.	
Level II—medium	> 25 customers on any one day, no	20 acres
scale	more than 100; no more than 50	
	vehicles allowed on site at any one	
	time.	
Level III—large	> 100 customers on any one day, no	25 acres
scale	more than 150; no more than 75	
	vehicles allowed on site at any one	
	time.	

(3) **Hours of Operation.** Hours of operation for a sawmill shall be limited from 6:00 a.m. to 6:00 p.m.

(B) Size of Use Standards.

(1) **Structure.** Excluding the actual timber cutting equipment, the size of all structures used at the sawmill shall not exceed the following gross floor areas (total all structures):

Use	Lot Area (Minimum)	Size of Structures (Maximum)
Level I—small scale	12 acres	3,500 square feet
Level II—medium scale	20 acres	5,500 square feet
Level III—large scale	25 acres	7,000 square feet

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(2) **Storage Yards.** The size of storage yards used for a sawmill shall not exceed the following size in square feet:

Use	Lot Area (Minimum)	Size of Storage Yard (Maximum)
Level I—small scale	12 acres	4,500 square feet
Level II—medium scale	20 acres	9,000 square feet
Level III—large scale	25 acres	15,000 square feet

(C) Location on Site/Dimensional Standards.

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(1) Lot Lines. Structures and storage yards shall be set back from lot lines as follows:

Use	Size of Structures (Maximum)	Setback from Lot Lines
Level I—small scale	Up to 3,500 square feet	225 ft.
Level II—medium	>3,500 square feet, up to	275 ft.
scale	5,500 square feet	
Level III—large	>5,500 square feet, up to	325 ft.
scale	7,000 square feet	

(2) **Sawdust and or Wood Chip Pile.** Sawdust or wood chip piles at the sawmills shall not exceed 25 feet.

(D) Landscaping/Buffering/Screening.

- (1) **Buffer.** The use shall comply with the landscaping and screening standards of Section 5-653(A).1404(A)(6).
- (2) **Parking Areas.** Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
- (3) **Storage Yards.** All storage yards shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).1406.

(E) Roads/Access Standards.

- (1) **General Access Standards.** A sawmill shall comply with the road access standards of Section 6-564.
- (2) **Driveways.** Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
- (F) **Exterior Lighting Standards.** All exterior lighting shall comply with the standards of Section 5-652 (Exterior Lighting Standards).
- (G) Noise Standards. The maximum allowable dB(A) level of impulsive sound emitted by the use, as measured at the property line, shall not exceed 55 dB(A).

- (H) Parking.
 - (1) **General.** Parking and loading shall be provided as required by Section 5-1102.
 - (2) **Surface.** All parking areas serving the sawmill shall use a dustfree surfacing material as provided in the Facilities Standards Manual.

75-630Agriculture Support Use (No Direct Association with Agriculture,
Horticulture, Animal Husbandry).

(A) Intensity/Character.

(1) **Site Size.** The minimum lot area for an agriculture support use (no direct association) shall be 5 acres, except the following uses shall have the following minimum lot area:

Use	Lot Area (Minimum)
Agricultural Research Facility	25 acres
Central Farm Distribution Hub for Agricultural Products	25 acres
Equestrian Event Facility	25 acres
Stable, Livery	25 acres

(2) Visitors/Customers/Parking Spaces. The minimum lot area shall increase based on the number of visitors/customers attracted to the use, as follows:

Use	Scope of Use/Event	Lot Area Minimum
Level I -	No more than 200 visitors on any one	5 to 25 acres
small scale	day; no more than 100 vehicles allowed	
	on site at any one time.	
Level II -	More than 200 visitors on any one day	>25 acres, up to 50
medium	and less than 400; no more than 200	
scale	vehicles allowed on site at any one time.	
Level III -	More than 400 visitors on any one day	>50 to 100 acres
large scale	and less than 600; no more than 300	
	vehicles allowed on site at any one time,	
	except that 5 additional visitors and 2	
	additional vehicles are allowed per acre	
	in excess of 100 acres.	

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- (3) **Hours of Operation.** Hours of operation for an agricultural support use (no direct association) shall be limited to the hours from 6:00 a.m. to 10:00 p.m.
- 21 (B) Size of Use.

Section 5-600 BOS Draft Date: November 21, 2019 (1) **Structure Size.** The size of structures used on the agricultural support use (no direct association) shall not exceed the following floor area ratio or gross floor area, as applicable:

Use	Lot Area (Minimum)	Size of Structures (Maximum)	
Agricultural Research Facility	25 acres	Maximum FAR: 0.02	
Central Farm Distribution Hub for Agricultural Products	25 acres	Maximum FAR: 0.02	
All Other Uses			
Level I—small scale	5 to 25 acres	12,000 square feet	
Level II—medium scale	>25 acres, up to 50 acres	24,000 square feet	
Level III—large scale	> 50 acres, up to 100 acres. Additional structure size allowed by right at rate of 2,400 square feet per 10 acres in excess of 100 acres, up to 48,000 square feet in total structure size for agriculture support use (no direct association)	36,000 square feet	

- (2) **Storage Areas.** The total area of storage areas shall not exceed 10 percent of the total area of the principal structure.
- (C) Location on Site/Dimensional Standards. An agricultural support use (no direct association) shall be set back from lot lines as follows:

Use	Lot Area (Min)	Size of Structures (Max.)	Setback from Lot Lines
Agricultural Research Facility	25 acres	Maximum FAR (all structures): 0.02	150 ft.
Central Farm Distribution Hub for Agricultural Products	25 acres	Maximum FAR (all structures): 0.02	150 ft.
All Other Uses Level I—small	5 to 25 acres	12,000 square feet	60 ft.
scale Level II—medium scale	>25 acres, up to 50 acres	24,000 square feet	120 ft.
Level III—large scale	> 50, up to 100 acres	36,000 square feet	175 ft.

(D) Landscaping/Buffering/Screening.

- (1) **Buffer.** The use shall comply with the landscaping and screening standards of Section 5-653(A).5-1404(A)(6).
- (2) **Parking Areas.** Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).

1 2 3			(3)	Storage Areas. All storage areas shall be screened and landscaped consistent with the standards of comply with Section 5-653(C). <u>5-1406.</u>
4		(E)	Roads	Access Standards.
5 6 7			(1)	General Access Standards. An agricultural support use (no direct association) shall comply with the road access standards in Section 5-654.
8 9			(2)	Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
10 11			(3)	Vehicles/Equipment. Any use that involves the use of or services heavy equipment shall have direct access to a paved public road.
12 13 14			(4)	Number of Access Points. There shall be no more than two points of access from the use to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
15 16		(F)		for Lighting Standards. All exterior lighting shall comply with the rds of Section 5-652(A) (Exterior Lighting Standards).
17 18		(G)		Standards. The use shall comply with the noise standards of n 5-652(B) (Noise Standards).
19			Douli	
17		(H)	Parki	ng.
20		(П)	(1)	General. Parking shall be provided as required by Section 5-1102.
		(Π)		
20 21	5-631	Anim	(1) (2) al Hosp	General. Parking shall be provided as required by Section 5-1102.Surface. All parking areas serving the use shall use a dust-free
20 21 22 23	5-631	Anim	(1) (2) al Hosp	General. Parking shall be provided as required by Section 5-1102.Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.ital. Animal hospitals in the PD-GI, AR and JLMA districts shall
20 21 22 23 24	5-631	Anim compl	(1) (2) al Hosp	General. Parking shall be provided as required by Section 5-1102.Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.Animal hospitals in the PD-GI, AR and JLMA districts shall he following standards.
 20 21 22 23 24 25 26 	5-631	Anim compl	(1) (2) al Hosp y with t Intens	 General. Parking shall be provided as required by Section 5-1102. Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual. ital. Animal hospitals in the PD-GI, AR and JLMA districts shall he following standards. ity/Character. Site Size. The minimum lot area for any animal hospital shall be 5 acres.
 20 21 22 23 24 25 26 27 	5-631	Anim compl (A)	 (1) (2) al Hosp y with t Intens (1) 	 General. Parking shall be provided as required by Section 5-1102. Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual. ital. Animal hospitals in the PD-GI, AR and JLMA districts shall he following standards. ity/Character. Site Size. The minimum lot area for any animal hospital shall be 5 acres.
 20 21 22 23 24 25 26 27 28 29 	5-631	Anim compl (A)	 (1) (2) al Hosp y with t Intens (1) Size of 	 General. Parking shall be provided as required by Section 5-1102. Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual. Animal hospitals in the PD-GI, AR and JLMA districts shall he following standards. Sity/Character. Site Size. The minimum lot area for any animal hospital shall be 5 acres. f Use. Floor Area Ratio. The maximum floor area ratio shall not exceed

1 2		(a)	Structures of less than 5,000 square feet of gross floor area: 100 feet minimum from all lot lines.
3 4 5		(b)	Structures greater than 5,000 square feet and less than 15,000 square feet of gross floor area: 150 feet minimum from all lot lines.
6 7		(c)	Structures greater than 15,000 square feet of gross floor area: 200 feet minimum from all lot lines.
8	(C)	Landscaping	g/Buffering/Screening.
9 10		• •	er. The use shall comply with the landscaping and screening ards of Section 5-653(A).5-1404(A)(6).
11 12			ing Areas. Parking areas shall be screened to comply with <u>action 5-1407</u> requirements of Section 5-653(B).
13 14 15		lands	age Yards. All storage yards shall be screened and caped consistent with the standards of <u>comply with</u> Section 5- <u>C).5-1406.</u>
16	(D)	Roads/Acces	SS.
17 18			eral Access Standards. An animal hospital shall comply with bad access standards of Section 5-654.
19 20			eways. Driveways shall not be located within a required r yard area except as minimally necessary to access the site.
21 22 23 24		of ac requi	ber of Access Points. There shall be no more than two points ccess from an animal hospital to a public road. This rement shall not preclude an additional access for emergency les only.
25 26	(E)		Section 5-652(A) (Exterior Lighting Standards).
27 28	(F)		lards. The use shall comply with the noise standards of 2(B) (Noise Standards).
29	(G)	Parking.	
30 31			eral. Parking and loading shall be provided as required by on 5-1102.
32 33			ace. All parking areas serving the use shall use a dust-free cing material as provided in the Facilities Standards Manual.
34 35			ormitory. Seasonal labor dormitory uses in the AR and hall comply with the following standards.

1		(A)	Intensity/Character.
2 3			(1) Location of Use. The use shall be located on the site of active agriculture, horticulture or animal husbandry operations.
4 5 6			(2) Dwelling Unit Size. The minimum size of a dormitory shall be based on a rate of 100 square feet per seasonal laborer housed, up to a maximum of 2,500 square feet.
7 8 9			(3) Residents. Residents shall be employed on site at an on-going agriculture, horticulture or animal husbandry operation during their occupancy of the unit.
10		(B)	Location on Site.
11 12 13			(1) Located on Internal Site Roads. Dormitories shall be accessed by internal site roads and shall not have direct access to public roads.
14 15			(2) Setback from Single-Family Dwellings. Dormitories shall be set back 300 feet from off-site single family detached units.
16 17 18		(C)	Landscaping/Buffering/Screening. Yards, berms, vegetative screening, fences or walls shall be provided to buffer adjacent properties and public streets from dormitory structures.
19 20 21		(D)	Sanitary and Bathing Facilities. All dwellings shall have indoor sanitary and bathing facilities consistent with the requirements of the Loudoun County Health Department.
22 23		(E)	Exterior Lighting Standards. All exterior lighting shall comply with the standards of Section 5-652(A) (Exterior Lighting Standards).
24		(F)	Parking.
25			(1) General. Parking shall be provided as required by Section 5-1102.
26 27			(2) Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
28 29 30			(3) Landscaping/Buffering/Screening. Parking areas shall be screened to comply with the Section 5-1407.requirements of Section 5-653(B).
31 32	5-633	-	ort/Landing Strip. The following standards shall apply to airport/landing in the AR, JLMA-20 and TR-10 districts.
33		(A)	Intensity/Character.
34			(1) Scope of Aviation Operations.

1 2 3		(a)	The airport/landing strip shall be for private aviation aircraft only, limited exclusively to the use of the landowner and guests; commercial operations, including
4			flight training, ground school, and sales, are prohibited.
5 6		(b)	Instrument-guided flight to access the airport/landing strip is prohibited.
7		(c)	Jet-propelled aircraft shall not use the airport/landing strip.
8 9		(d)	Takeoffs or landings are prohibited between the hours of 6:00 p.m. and 6:00 a.m.
10		(2) Acc	essory Aircraft Repairs and Servicing.
11 12 13		(a)	Typical accessory support services for the airport landing strip are allowed, including but not limited to fueling stations, fuel tanks, and storage.
14 15 16 17		(b)	Routine minor repairs and necessary maintenance of aircraft are permitted accessory uses, provided all routine repairs and maintenance occur within an enclosed structure, such as a hangar.
18 19 20 21	(B)	acres, exce	The minimum lot area for an airport/landing strip shall be 80 pt that a use consisting only of a landing strip with no accessory or facilities other than a fueling station shall be a minimum of size.
22	(C)	Structure	Size.
23 24 25		suc	acture Size. The size of structures necessary to service the use, h as aircraft service buildings, shall not exceed the following ss floor area (total all structures): 15,000 square feet.
26 27 28 29 30		lots grea allo	rage Yards. The maximum total area of storage yards for all smaller than 25 acres shall be 5,000 square feet. For lots ater than 25 acres, an additional 1,000 square feet shall be wed for each additional 10 acres, not to exceed a maximum of 000 square feet.
31	(D)	Location o	n Site/Dimensional Standards.
32 33 34		Str	ation Structures, Storage Yards and Runway or Landing ip. All aviation structures, storage yards, and the runway or ding strip, shall be set back from lot lines as follows:
35 36		(a)	Structures less than 2,500 square feet of gross floor area: 125 feet minimum from all lot lines.

 1 2			(b) Structures greater than 2,500 and up to 15,000 square feet of gross floor area: 200 feet minimum from all lot lines.
3 4			(c) Structures over 15,000 square feet of gross floor area: 250 feet minimum from all lot lines.
5 6			(d) Runway or landing strip: 650 feet minimum from all lot lines.
7	(E)	Landso	caping/Buffering/Screening.
8 9 10 11 12			Runway Buffer Area. A buffer area shall be provided extending from the end of all runways or landing strips. The size of the buffer shall encompass a minimum land area equal to a one-quarter mile radius measured from the edge of the end of every runway. No uses shall be allowed within this runway buffer area.
13 14			Parking. Parking areas shall be screened to comply with <u>Section</u> the <u>5-1407</u> . requirements of Section <u>5-653(B)</u> .
15 16 17			Outdoor Services/Activities. All tanks, storage yards, and vehicles and equipment stored outdoors shall be screened and landscaped consistent with the standards of Section 5-653(C).
18 19	(F)		Access. Any airport/landing strip use shall comply with the road standards of Section 5-654.
20 21	(G)		or Lighting Standards. All exterior lighting shall comply with the ds of Section 5-652(A) (Exterior Lighting Standards).
22	(H)	Parkin	g.
23		(1)	General. Parking shall be provided as required by Section 5-1102.
24 25			Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
26 27			Cultural Center. An agricultural cultural center in the AR and PD-CM and CB districts shall comply with the following standards:
28 29	(A)		ty/Character of Use. The minimum lot area for an agricultural l center shall be 10 acres.
30	(B)	Size of	Use.
31		(1)	Floor Area Ratio. The maximum floor area ratio shall be 0.04.
32 33 34 35			Storage Yards. The total area of all storage yards shall be limited to 10 percent of the total gross floor area of the principal structure on the site. Outdoor exhibit space open to members of the public shall not be counted as part of the area of storage yards.

 1	(C)	Loca	tion on S	site.
2 3		(1)		nes. An agricultural cultural center shall be set back from as as follows:
4 5			(a)	Structures of less than 9,000 square feet of gross floor area: 125 feet minimum from all lot lines.
6 7 8			(b)	Structures greater than 9,000 square feet, and up to 18,000 square feet of gross floor area: 175 feet minimum from all lot lines.
9 10			(c)	Structures over 18,000 square feet of gross floor area: 225 feet minimum from all lot lines.
11	(D)	Land	scaping/	Buffering/Screening.
12 13		(1)		• The use shall comply with the landscaping and screening to screening the section 5-653(A). 5-1404(A)(6).
14 15		(2)		Areas. Parking areas shall be screened to comply with stion 5-1407. requirements of Section 5-653(B).
16 17 18		(3)	landsca	ye Yards. All storage yards shall be screened and aped consistent with the standards of comply with Section 5- $\pm 5-1406$.
19	(E)	Road	s/Access	
20 21		(1)		al Access Standards. An agricultural cultural center shall with the road access standards of Section 5-654.
22 23 24		(2)	of acce	er of Access Points. There shall be no more than one point ess to a public road. This requirement shall not preclude an nal access for emergency vehicles only.
25 26		(3)		vays. Driveways shall not be located within a required yard area except as minimally necessary to access the site.
27 28	(F)		0	ting Standards. All exterior lighting shall comply with the ection 5-652(A) (Exterior Lighting Standards).
29	(G)	Park	ng.	
30 31		(1)		al. Parking and loading shall be provided as required by 1 5-1102.
32 33 34		(2)	of up to	e. All parking areas serving an agricultural cultural center o 5,000 square feet gross area shall use a dust-free surfacing al as provided in the Facilities Standards Manual. Parking

1 2		areas in excess of 5,000 square feet of gross floor area shall provide paved parking for visitors and users.				
3 4 5 6 7 8 9 10 11 12 13 14 15	(H)	A structure existing prior to January 7, 2003, that is: 1) located within a County Historic Site (HS) District or Historic and Cultural Conservation (HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing in the Virginia Landmarks Register (VLR) or the National Register of Historic Places (NRHP); or 3) listed or eligible for listing as a contributing resource to a VLR or NRHP listed or eligible Historic District, may be used as an Agricultural Cultural Center and shall be exempt from the minimum lot area, floor area ratio, and set back from lot line requirements specified above, provided that any expansion or enlargement of such structure shall not exceed 15% of the total floor area existing prior to January 7, 2003. Documentation shall be provided to the Zoning Administrator demonstrating that the Virginia Department of Historic Resources has confirmed the listing or eligibility of structures.				
16 17		round. The following standards shall apply to fairgrounds in the AR and -20 districts.				
18 19	(A)	Intensity/Character of Use. The minimum lot area for the use shall be 25 acres.				
20	(B)	Size of Use.				
21		(1) Floor Area Ratio. The maximum floor area ratio shall be 0.04.				
22 23		(2) Storage Areas. The total area of storage areas shall not exceed 10 percent of the total area of the principal structures.				
24		(3) Building Height. Building height shall not exceed 35 feet.				
25 26		(4) Location on Site. The use shall be set back from lot lines as follows:				
27 28		(a) Structures of less than 20,000 square feet of gross floor area: 150 feet minimum from all lot lines.				
29 30 31		(b) Structures greater than 20,000 square feet, up to 40,000 square feet of gross floor area: 200 feet minimum from all lot lines.				
32 33		(c) Structures greater than 40,000 square feet of gross floor area: 225 feet minimum from all lot lines.				
34	(C)	Landscaping/Buffering/Screening.				
35 36		(1) Buffer. The use shall comply with the landscaping and screening standards of Section $5-653(A)$. $5-1404(A)(6)$.				

1 2			(2)	Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
3 4 5			(3)	Storage Areas. All storage areas shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.
6		(D)	Roads	s/Access.
7 8			(1)	General Access Standards. Fairgrounds shall comply with the road access standards of Section 5-654.
9 10 11			(2)	Number of Access Points. There shall be no more than two points of access to a fairground. This requirement shall not preclude an additional access for emergency vehicles only.
12 13			(3)	Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
14 15		(E)		tor Lighting Standards. All exterior lighting shall comply with the rds of Section $5-652(A)(1)-(3)$.
16		(F)	Noise.	
17 18 19 20			(1)	Location in Relation to Residential Use. No loading/unloading activities, or other noise-producing activities shall be allowed within 250 feet of an existing adjacent single family detached use during the hours of 11:00 p.m. and 6:00 a.m.
21 22 23 24			(2)	Maximum dB(A). The maximum allowable dB(A) level of impulsive sound emitted from the use, as measured at the property line, shall not exceed 55 dB(A). In addition, outdoor music shall not be allowed after $11:00$ PM.
25		(G)	Parki	ng.
26			(1)	General. Parking shall be provided as required by Section 5-1102.
27 28 29			(2)	Surface. All parking areas serving a fairground shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
30 31 32	5-636	shall a	pply to	Botanical Garden, Nature Study Area. The following standards the development of arboretums, botanical gardens, and nature study R, JLMA-20 and PD-CV districts.
33		(A)	Intens	sity/Character of Use.
34 35			(1)	Site Size. The minimum lot area for any arboretum, botanical garden or nature study area shall be 5 acres.

1 2 3 4 5		(2)	6:00 a events operate	of Operation. The hours of operation shall be limited to to 9:00 p.m., except that permitted temporary special at an arboretum, botanical garden, or nature study area may e beyond the 9:00 p.m. time according to the terms of the rary special events permit.
6 7 8 9 10		(3)	acres i garden shops)	sory Uses. Accessory uses shall only permitted on lots 20 n size or larger. Accessory uses to an arboretum, botanical n, or nature study area may include retail sales (e.g., gift , small restaurants or cafes, or visitor centers subject to the ing standards:
11 12 13			(a)	Retail sales shall be limited to the sale of items directly related to the nature and character of the principal permitted use.
14 15 16 17			(b)	Accessory uses other than a visitors center shall contain no more than 1,000 square feet of gross floor area. A visitors center shall contain no more than 2,500 square feet of gross floor area.
18	(B)	Size o	f Use.	
19		(1)	Floor	Area Ratio. The maximum floor area ratio shall be 0.02.
20 21		(2)	-	ge Areas. The total area of storage areas shall not exceed 10 at of the total area of the principal structure.
22 23	(C)		s/Access n 5-654	s. Uses shall comply with the road access standards of
24	(D)	Parki	ng.	
25 26		(1)		ral. Parking and loading shall be provided as required by n 5-1102.
27 28		(2)		ce. All parking areas serving the use shall use a dust-free ing material as provided in the Facilities Standards Manual.
29 30	(E)		0	Atting Standards. All exterior lighting shall comply with the ection 5-652(A) (Exterior Lighting Standards).
31 32 33 34 35 36 37 38 39	(F)	Count (HCC) in the Histor resour- used a be exe	y Histor) Distric Virgini ic Place ce to a s an Ar empt fro	Additional distribution of the minimum lot area and floor area ratio requirements we, provided that any expansion or enlargement of such as the minimum lot area and floor area ratio requirements we, provided that any expansion or enlargement of such as the minimum lot area and shall and the minimum lot area and floor area ratio requirements we have the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio requirements area for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area ratio for the minimum lot area and floor area area and floor area area area and floor area area and flo

1 2 3 4			Januar Admir	are shall not exceed 15% of the total floor area existing prior to ry 7, 2003. Documentation shall be provided to the Zoning nistrator demonstrating that the Virginia Department of Historic rces has confirmed the listing or eligibility of structures.		
5 6 7 8	t! s	he devection	etery, Mausoleum, Crematorium. The following standards shall apply to evelopment of cemeteries, mausoleums, and crematoriums, except this on shall not apply to crematoriums permitted in the Planned Development- d Use Business (PD-MUB) zoning district.			
9	(1	A)	Intens	sity/Character of Use.		
10 11			(1)	Site Size. The minimum lot area for any cemetery, mausoleum, or crematorium shall be 10 acres.		
12 13			(2)	Hours of Operation. The hours of operation shall be limited to 6:00 a.m. to 9:00 p.m. or dusk, whichever occurs first.		
14	(B)	Size o	f Use.		
15 16			(1)	Maximum Floor Area Ratio. The maximum floor area ratio shall be 0.04.		
17 18			(2)	Storage Areas. The total area of storage areas shall not exceed 10 percent of the total area of the principal structure.		
19	(C)	Locat	ion on Site/Dimensional Standards.		
20 21			(1)	General. Cemetery, mausoleum, or crematorium uses shall be set back 150 feet from lot lines.		
22 23 24 25 26 27 28			(2)	Setback from Residences without Property Owner Consent. Cemetery, mausoleum and crematorium uses shall be set back a minimum of 250 yards from a residence if property owner consent is not received to be located closer to the residence. Cemetery, mausoleum or crematorium uses shall be set back a minimum of 300 yards from a city, town or water company well (Section 57-26 Code of Virginia).		
29	(D)	Lands	scaping/Buffering/Screening.		
30 31			(1)	Buffer. The use shall comply with the landscaping and screening standards of Section $\frac{5-653(A)}{5-1404(A)(6)}$.		
32 33			(2)	Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).		
34 35 36			(3)	Storage Areas. All storage areas shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.		

1	(E)	Roads	s/Access	
2 3		(1)		al Access Standards. Uses shall comply with the road standards of Section 5-654.
4 5		(2)		vays. Driveways shall not be located within a required yard area except as minimally necessary to access the site.
6	(F)	Parki	ng.	
7 8		(1)		al. Parking and loading shall be provided as required by a 5-1102.
9 10		(2)		e. All parking areas serving the use shall use a dust-free ng material as provided in the Facilities Standards Manual.
11 12	(G)		-	ting Standards. All exterior lighting shall comply with the ection 5-652(A) (Exterior Lighting Standards).
13 14 15 16 17	The f Statio Such	ollowing ns and l standard	g standa Police S ls shall	Fire and/or Rescue Station, Police Station or Substation). rds shall apply to the development of Fire and/or Rescue tations or substations in the AR, TR and JLMA districts. not apply to the development of a temporary Fire and/or AR, TR and JLMA districts.
18	(A)	Fire a	nd/or R	escue Station.
19		(1)	Size of	î Use.
20 21			(a)	Site Size. The minimum lot area for any Fire and/or Rescue Station shall be two (2) acres.
22 23			(b)	Floor Area Ratio. The maximum floor area ratio shall be 0.3.
24 25 26			(c)	Storage Yards. The total area of storage yards shall not exceed 20 percent of the total area of the principal structure.
27 28 29 30 31			(d)	Setback from Lot Lines. Structures associated with Fire and/or Rescue Stations shall be set back 100 feet from all lot lines. Such setback may be reduced to 60 feet from lot lines if a <u>Buffer Yard Type 4-C Buffer Yard</u> is provided along such lot line.
32		(2)	Lands	caping/Buffering/Screening.
33 34 35 36			(a)	Buffer. The use shall comply with the landscaping and screening standards of Section $5-653(A)$, $5-1404(A)(6)$ unless a <u>Buffer Yard Type 4-C Buffer Yard</u> is provided in accordance with Section $5-638(A)(1)(d)$.

1 2 3		(b)	-	g Areas. Parking areas shall be screened to comply e Section 5-1407. requirements of Section 5-
4 5 6		(c)	landscap	Yards. All storage yards shall be screened and ped consistent with the standards of comply with 5-653(C).5-1406.
7	(3)	Roads	Access.	
8 9		(a)		Access Standards. Uses shall comply with the cess standards of Section 5-654.
10 11 12 13		(b)	two poin	r of Access Points. There shall be no more than nts of access to a public road. This requirement of preclude an additional access for emergency s only.
14 15 16	(4)	Section	n 5-1102(ing and loading shall be provided as required by (B)(4). These spaces shall be in addition to vehicle for vehicles not in use.
17 18 19	(5)	with t		ing Standards. All exterior lighting shall comply lards of Section $5-652(A)(1)$ and (2) (Exterior ards).
20	(B) Police	Station	n or Subs	station.
21	(1)	Size of	f Use.	
22 23		(a)		e. The minimum lot area for a Police Station or on shall be two (2) acres.
24 25		(b)	Floor A 0.3.	rea Ratio. The maximum floor area ratio shall be
26 27 28		(c)		Yards. The total area of storage yards shall not 20 percent of the total area of the principal e.
29 30		(d)		from Lot Lines. Police Stations or Substations set back from lot lines as follows:
31 32				Structures of less than 4,000 square feet of gross floor area: 60 feet minimum from all lot lines.
33 34 35			8	Structures greater than 4,000 square feet, and up to 8,000 square feet of gross floor area: 100 feet minimum from all lot lines.

 1 2	(iii) Structures greater than 10,000 square feet of gross floor area: 120 feet minimum from all lot lines.
3	(2) Landscaping/Buffering/Screening.
4 5	(a) Buffer. The use shall comply with the landscaping and screening standards of Section 5-653(A).5-1404(A)(6).
6 7	(b) Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
8 9 10	(c) Storage Yards. All storage yards shall be screened and landscaped consistent with the standards of comply with Section <u>5-1406.5-653(C)</u> .
11	(3) Roads/Access.
12 13	(a) General Access Standards. Uses shall comply with the road access standards of Section 5-654.
14 15 16 17	(b) Number of Access Points. There shall be no more than two points of access to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
18 19 20	(4) Parking. Parking and loading shall be provided as required by Section 5-1102(B)(4). These spaces shall be in addition to vehicle storage spaces for vehicles not in use.
21 22 23	(5) Exterior Lighting Standards. All exterior lighting shall comply with the standards of Section 5-652(A)(1) and (2) (Exterior Lighting Standards).
24 25 26	5-639 Religious Assembly Uses (Church, Synagogue, Temple, Mosque). The following standards shall apply to the development of religious assembly uses in the AR, JLMA and TR-10 districts
27	(A) Size of Use.
28 29	(1) Site Size. The minimum lot area for a religious assembly use shall be:
30 31	(a) Religious assembly uses with seating capacity of 300 seats or less: 10 acres.
32 33 34 35	 (b) Religious assembly uses with seating capacity of 300 seats or more seats, or religious assembly uses that include accessory uses (schools, day care centers, recreation facilities): 20 acres.

1 2 3		(2)	Maximum Floor Area Ratio. The maximum floor area ratio, as measured utilizing all structures and the total gross acreage of the site shall be 0.20.
4 5		(3)	Storage Yards. The total area of storage yards shall not exceed 10 percent of the total area of the principal structure.
6	(B)	Locat	ion on Site.
7 8 9 10		(1)	Setbacks from Lot Lines. A religious assembly use (including all accessory uses and structures) shall be set back from lot lines a minimum of 75 feet for buildings and other structures and a minimum of 50 feet for parking.
11 12	(C)		Care Facilities. Religious assembly uses with child care facilities comply with the requirements of Section 5-609.
13			
14	(D)	Lands	scaping/Buffering/Screening.
15 16		(1)	Buffer. The use shall comply with landscaping and screening standards of Section $5-653(A)$. $5-1404(A)(6)$.
17 18		(2)	Parking Area. Parking areas shall be screened to comply with the <u>Section 5-1407.</u> requirements of Section 5-653(B).
19 20 21		(3)	Storage Yards. All storage yards shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.
22	(E)	Road	s/Access.
23 24		(1)	General Access Standards. Religious assembly uses shall comply with the road access standards of Section 5-654.
25 26 27 28		(2)	Number of Access Points. There shall be no more than two points of access to a public road from a religious assembly use. This requirement shall not preclude an additional access for emergency vehicles only.
29	(F)	Parki	ng.
30 31		(1)	General. Parking and loading shall be provided as required by Section 5-1102.
32 33		(2)	Surface. All parking areas shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
34 35	(G)		ior Lighting Standards. All exterior lighting shall comply with the ords of Section 5-652(A) (Exterior Lighting Standards).

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- (H) Modification of Performance Standards. The Zoning Administrator shall have the authority to grant modifications to any of the standards listed in this Section 5-639 in order to eliminate a substantial burden on religious exercise as guaranteed by the federal *Religious Land Use and Institutionalized Persons Act of 2000* (42 U.S.C. Sec. 2000cc), as amended. In granting such a modification, the Zoning Administrator may require conditions consistent with the federal Act that will secure substantially the objectives of the modified standard and that will substantially mitigate any potential adverse impact on the environment or on adjacent properties.
- 115-640Conference and Training Centers. Conference and training centers in the AR,12JLMA-20 and TR-10 districts shall comply with the following standards.
 - (A) Intensity/Char
 -) Intensity/Character. The minimum lot area shall be as follows.

Use	Lot Area (Minimum)	Average Daily Users
Level I-small scale	50 acres	Up to 50 users
Level II-medium scale	100 acres	>50 and up to 100 users
Level III-large scale	150 acres	>100 and up to 150 users
Level IV	Requires special exception approval pursuant to Section 6-1300	>150 users
Average daily users include	the employees, trainees and co	onferees the conference and

Average daily users include the employees, trainees and conference and training center is designed to accommodate. Service trips, which are trips made to the facility for the purpose of delivering food, supplies, and related materials are in addition to the average daily users.

- 15 (B) Size of Use.
 - (1) Floor Area Ratio. The maximum floor area ratio shall be 0.04.
 - (2) Accessory Uses. Dining and banquet facilities may be provided for employees, trainees and conferees. The banquet and dining facilities shall not exceed 20 percent of the total area of the principle permitted structure. The lodging facilities shall not constitute over 40 percent of the total area of the principal permitted structure.
 - (3) Special Events Only by Section 5-500 or Special Exception. Special events shall receive approval pursuant to Section 5-500, or be specifically provided for in the approval of a special exception (Section 6-1300), as applicable.
 - (4) **No Products Sold On-Site.** No products shall be sold on-site, except those that are clearly incidental and integral to the training programs and seminars. Shirts, glasses, golf equipment, pens and pencils, mugs and similar items with the logo of the company or firm conducting or sponsoring the conference or seminars are considered incidental and integral to the training program.

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- (5) Storage Yards. The total area of storage yards shall not exceed 10 percent of the total area of the principle structures.
- (6) **On-Site Recreation Facilities.** On-site recreation facilities may be used solely by employees, trainees or conferees.
- **Open Space.** A minimum of 75 percent of the site shall remain as (7) open space.
- Location on Site/Dimensional Standards. (8) Conference and training centers shall be set back from lot lines as follows:

Use	Lot Area (Min)	Setback from Lot Lines
Level I—small scale	50 acres	150 ft.
Level II—medium scale	100 acres	200 ft.
Level III—large scale	150 acres	250 ft.

(C) Landscaping/Buffering/Screening.

- Buffer. The use shall comply with the landscaping and screening (1)standards of Section 5-653(A).5-1404(A)(6).
- Parking Areas. Parking areas shall be screened to comply with (2)the Section 5-1407. requirements of Section 5-653(B).
- (3) Storage Yards. All storage yards shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.

Roads/Access. (D)

- (1)General. The conference and training center use shall comply with the road access standards of Section 5-654.
- (2)Number of Access Points. There shall be no more than one point of access to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
- (3)Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.

(E) Parking.

- (1) General. Parking and loading shall be provided as required by Section 5-1102.
- Surface. All parking areas serving the use shall use a dust-free (2)surfacing material as provided in the Facilities Standards Manual.

1 (F) Exterior Lighting Standards. All exterior lighting shall comply with the 2 standards of Section 5-652(A) (Exterior Lighting Standards). 3 (G) Noise Standards. The maximum allowable dB(A) level of impulsive sound from the site, as measured at the property line, shall not exceed 55 4 dB(A). In addition, outdoor music shall not be allowed after 11:00 PM. 5 6 5-641 Teahouse; Coffeehouse. Teahouse or coffeehouse uses in the AR districts shall 7 comply with the following standards. 8 (A) Intensity/Character Standards. Hours of operation shall be limited to 9 6:00 a.m. to 9:00 p.m. Size of Use. 10 **(B)** 11 (1) Site Size. The minimum lot area shall be 5 acres. Structure. The size of structures used shall not exceed 2,500 12 (2)square feet in gross floor area (total all structures). 13 14 Location on Site/Dimensional Standards. The teahouse or coffeehouse (C) use shall be setback 50 feet from lot lines. 15 Landscaping/Buffering/Screening. Parking areas shall be screened to 16 (D) 17 comply with the Section 5-1407. requirements of Section 5-653(B). Parking. Parking and loading shall be provided as required by Section 5-18 (E) 19 1102. 20 **Roads Access Standards.** (F) 21 (1)General Access Standards. The use shall comply with the road 22 access standards in Section 5-654. 23 (2)Number of Access Points. There shall be no more than one point of access to a public road. This requirement shall not preclude an 24 25 additional access for emergency vehicles only. 26 (G) Exterior Lighting Standards. All exterior lighting shall comply with the 27 standards of Section 5-652(A)(1), (2) and (4). A structure existing prior to January 7, 2003, that is: 1) located within a 28 (H) 29 County Historic Site (HS) District or Historic and Cultural Conservation 30 (HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing 31 in the Virginia Landmarks Register (VLR) or the National Register of 32 Historic Places (NRHP); or 3) listed or eligible for listing as a contributing 33 resource to a VLR or NRHP listed or eligible Historic District, may be 34 used as a Teahouse or Coffeehouse and shall be exempt from the minimum 35 lot area and floor area requirements specified above, provided that any 36 expansion or enlargement of such structure shall not exceed 15% of the total floor area existing prior to January 7, 2003. Documentation shall be 37

1 2 3		Depar		or demonstrating that the Virginia s confirmed the listing or eligibility
4 5		-	ent Facility. Any Banquet/Even I district, shall comply with the	t Facility use, except within the PD- following standards:
6	(A)	Inten	sity/Character.	
7 8		(1)	Hours of Operation. Hours of AM to 12:00 midnight.	of operation shall be limited to 7:00
9 10		(2)	Size of Use. The minimum lo shall be 20 acres.	ot area for a Banquet/Event Facility
11		(3)	Floor Area. The floor area ra	tio shall not exceed 0.04.
12 13 14 15		(4)		nal Standards. The Board of outdoor area setback in establishing Minor Special Exception for the
16 17			(a) The Banquet/Event Fa from all lot lines.	cility use shall be setback 100 feet
18			(b) Parking shall be setbac	k 100 feet from all lot lines.
19 20 21				reas shall be setback 200 feet from from a lot line of a property having
22 23 24		(5)		maximum number of attendees for the rate of 200 plus two (2) persons
			Minimum Acreage	No. of Attendees
			20 acres	200 attendees
			50 acres	260 attendees
			75 acres	310 attendees
			100 acres	360 attendees
25				
26	(B)	Land	scaping/Buffering/Screening.	
27 28 29		(1)		Facility-use shall comply with the standards of Section 5-653(A).5-
30 31		(2)		as shall comply with the <u>Section 5-</u> ng standards of Section 5-653(B).

1 2			(3)<u>(</u>2)	Storage Yards. All storage yards shall comply with the landscaping and screening standards of Section 5-653(C).5-1406.
3		(C)	Roads	/Access Standards.
4 5			(1)	General Access Standards. A Banquet/Event Facility shall comply with the road access standards of Section 5-654.
6 7 8 9			(2)	Number of Access Points. There shall be no more than two points of access to a publicly maintained road for the Banquet/Event Facility use. This requirement shall not preclude an additional access for emergency vehicles only.
10 11 12 13 14			(3)	For any Banquet/Event Facility that is located on a lot which does not have frontage on a publicly maintained road, documentation shall be provided to the Zoning Administrator demonstrating that the private access easement serving such lot may be used to provide access to the establishment.
15		(D)	Parkir	ıg.
16 17			(1)	General. Parking and loading shall be provided as required by Section 5-1102.
18 19 20 21		(E)	of Sect the req	or Lighting. All exterior lighting shall comply with the standards tion $5-652(A)(1)-(3)$ (Exterior Lighting Standards). In addition to uirements of Section 5-652, the maximum height of pole-mounted or lighting, outside of parking areas, shall be 12 feet.
22 23		(F)		A Banquet/Event Facility shall comply with the noise standards of n 5-652(B) (Noise Standards).
24 25	5-643			Any restaurant use in the AR-1, AR-2, JLMA-2, and JLMA-3 as shall comply with the following standards.
26 27		(A)		ity/Character Standards. Hours of operation shall be limited :00 a.m. to 12:00 midnight.
28		(B)	Size of	f Use.
29 30 31			(1)	Site Size. The minimum lot area shall be 20 acres except that there shall be no minimum lot size for adaptive reuse of farm structures existing as of January 7, 2003.
32 33 34			(2)	Floor Area Ratio. The floor area ratio shall not exceed 0.01 except that there shall be no maximum floor area ratio for adaptive reuse of farm structures existing as of January 7, 2003.
35 36			(3)	Location on Site/Dimensional Standards. The use shall be set back from lot lines as follows:

1 2				(a)	Structures of up to 1,500 square feet of gross floor area: 100 feet minimum from all lot lines.
3 4				(b)	Structures greater than 1,500 and up to 4,000 square feet of gross floor area: 150 feet minimum from all lot lines.
5 6				(c)	Structures over 4,000 square feet of gross floor area: 175 feet minimum from all lot lines.
7 8	((C)	Parki 1102.	ıg. Parl	king and loading shall be provided as required by Section 5-
9	((D)	Lands	caping/	Buffering/Screening.
10 11			(1)		•. The use shall comply with the landscaping and screening rds of Section 5-653(A).5-1404(A)(6).
12 13			(2)		ng Areas. Parking areas shall be screened to comply with <u>scient 5-1407.</u> requirements of Section 5-653(B).
14 15 16			(3)	landsca	ye Yards. All storage yards shall be screened and aped consistent with the standards of comply with Section 5- $\frac{5-1406}{5}$.
17	((E)	Roads	/Access	Standards.
18 19			(1)		al. A restaurant shall comply with the road access standards tion 5-654.
20 21			(2)		vays. Driveways shall not be located within a required yard area except as minimally necessary to access the site.
22 23 24			(3)	of acce	er of Access Points. There shall be no more than one point ess to a public road. This requirement shall not preclude an nal access for emergency vehicles only.
25 26	((F)		0	ting Standards. All exterior lighting shall comply with the ection 5-652(A) (Exterior Lighting Standards).
27 28 29 30	l r	Hortic researc	ulture h facili	and An ties use	esearch Facilities Use Related to the Agriculture, imal Husbandry Uses in the District. Any educational or related to the agriculture, horticulture and animal husbandry R districts shall comply with the following standards.
31	((A)	Size of	f Use St	andards.
32			(1)	Site Si	ze. The minimum lot area shall be 25 acres.
33 34 35			(2)		rs/Customers/Parking Spaces. The minimum lot area acrease based on the number of visitors/customers attracted, ows.

			Scope of Use/Event Lot Area
			Scope of OscillventDot Area (Minimum)No more than 200 visitors on any one day; no more than 100 vehicles allowed on site at any one time. Additional visitors allowed by right at rate of 5 per acre in excess of 25 acres.25 acres
1 2		(3)	Structure. The floor area ratio shall not exceed 0.04.
3 4		(4)	Storage Yards. The maximum total area of storage yards shall not exceed 10 percent of the total area of the principal structure.
5 6	(B)		ion on Site/Dimensional Standards. The use shall be set back ot lines as follows:
7 8		(1)	Structures up to 7,000 square feet of gross floor area: 100 feet minimum from all lot lines.
9 10		(2)	Structures greater than 7,000 square feet of gross floor area and up to 12,000: 150 feet minimum from all lot lines.
11 12		(3)	Structures greater than 12,000 square feet of gross floor area: 200 feet minimum from all lot lines.
13 14	(C)	Parki 1102.	ng. Parking and loading shall be provided as required by Section 5-
15	(D)	Land	scaping/Buffering/Screening.
16 17		(1)	Buffer. The use shall comply with the landscaping and screening standards of Section $\frac{5-653(A)}{5-1404(A)(6)}$.
18 19		(2)	Parking Areas. Parking areas shall be screened to comply with the <u>Section 5-1407.</u> requirements of Section 5-653(B).
20 21 22		(3)	Storage Yards. Storage yards shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.
23	(E)	Road	s/Access.
24 25		(1)	General. The use shall comply with the road access standards of Section 5-654.
26 27 28		(2)	Number of Access Points. There shall be no more than two points of access to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
29 30		(3)	Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.

- (F) **Exterior Lighting Standards.** All exterior lighting shall comply with the standards of Section 5-652(A) (Exterior Lighting Standards).
- (G) Noise Standards. The use shall comply with the noise standards of Section 5-652(B) (Noise Standards).
- (H) A structure existing prior to January 7, 2003, that is: 1) located within a County Historic Site (HS) District or Historic and Cultural Conservation (HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing in the Virginia Landmarks Register (VLR) or the National Register of Historic Places (NRHP); or 3) listed or eligible for listing as a contributing resource to a VLR or NRHP listed or eligible Historic District, may be used as an Educational or Research Facilities Use Related to the Agriculture, Horticulture and Animal Husbandry and shall be exempt from the minimum lot area, floor area ratio, and set back from lot line requirements specified above, provided that any expansion or enlargement of such structure shall not exceed 15% of the total floor area existing prior to January 7, 2003. Documentation shall be provided to the Zoning Administrator demonstrating that the Virginia Department of Historic Resources has confirmed the listing or eligibility of structures.
- 195-645Camp, Day and Boarding. Day and boarding camps in the AR, TR, JLMA and20PD-CV districts shall comply with the following standards.
- 21 (A) Intensity/Character.
 - (1) Site Size.

(2)

- (a) The minimum lot area for a day and boarding camp for less than 15 campers shall be 20 acres.
- (b) The minimum lot area for a day and boarding camp for more than 15 campers shall comply with the following standards.

Use	Scope of Use/Campers	Lot Area (Minimum)
Level I— small scale	Up to 30 campers daily.	15 acres
Level II— medium scale	Up to 100 campers or borders daily.	40 acres
Level III— large scale	Up to 250 campers or borders daily.	100 acres
Level IV	> 250 campers or borders daily.	Special exception pursuant to Section 6-1300

Not Permanent Residence. Day and boarding camps shall not be

used as permanent residences, except for the owner or manager

and permanent maintenance personnel.

Service Buildings. Service buildings with restroom and other 1 (3) 2 facilities shall be provided in accordance with the Loudoun County Health Department requirements. 3 Location on Site/Dimensional Standards. Structures shall be set back 4 (B) from lot lines as follows: 5 6 Setback from Lot Lines Use Level I—small scale 150 ft. Level II—medium scale 200 ft. 250 ft. Level III—large scale Level IV 300 ft. 7 8 (C) Landscaping/Buffering/Screening. 9 **Buffer.** The use shall comply with the landscaping and screening (1) standards of Section 5-653(A).5-1404(A)(6). 10 11 (2)Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B). 12 13 (D) **Roads/Access.** General Access Standards. The use shall comply with the road 14 (1)access standards of Section 5-654. 15 16 (2)Driveways. Driveways shall not be located within a required 17 buffer yard area except as minimally necessary to access the site. Number of Access Points. 18 (3) 19 Camp with Less Than 15 Campers/Level I Camp. (a) 20 There shall be no more than one point of access to a public road from a camp with less than 15 campers or a Level I 21 22 day and boarding camp. This requirement shall not 23 preclude an additional access for emergency vehicles only. 24 (b) Level II or III Day and Boarding Camp. There shall be 25 no more than two points of access to a road from a Level II or III day and boarding camp. This requirement shall not 26 27 preclude an additional access for emergency vehicles only. 28 (E) Parking. 29 (1) General. Parking shall be provided as required by Section 5-1102. 30 (2) Surface. All parking and loading areas serving the use shall use a 31 dust-free surfacing material as provided in the Facilities Standards 32 Manual.

- (F) **Exterior Lighting Standards.** All exterior lighting shall comply with the standards of Section 5-652(A) (Exterior Lighting Standards).
- (G) Noise Standards. The use shall comply with the noise standards of Section 5-652(B) (Noise Standards).
- **5-646 Campgrounds.** Campgrounds in the AR, TR, and JLMA districts shall comply with the following standards.
- 7 (A) Intensity/Character.

(1) Site Size.

- (a) The minimum lot area for a campground shall be 40 acres.
- (b) The minimum lot area for a campground shall increase based on the following standards.

Use	Scope of Use/Campsites	Lot Area (Minimum)
Level I—small scale	Up to 50 campsites	40 acres
Level II—medium scale	>50 up to 100 campsites	80 acres
Level III—large scale	>100 up to 150 campsites	160 acres
Level IV	> 150 campsites	Special exception
		pursuant to Section 6-1300

- (2) **Not Permanent Residence.** Campgrounds shall not be used as permanent residences, except for the owner or manager and permanent maintenance personnel.
 - (3) **Camping Sites.** Camping sites shall be a minimum of 1,250 square feet and at least 25 feet in width.
 - (4) **Recreational Area.** Each campground shall provide a recreational area consisting of 100 square feet per campsite.
 - (5) **Public Telephone.** At least one (1) public telephone shall be provided for each 50 campsites.
 - (6) **Streets and Walks Lighted.** Streets and walks shall be lighted every 400 feet.
 - (7) **Service Buildings.** Service buildings with restroom and other facilities shall be provided in accordance with the Loudoun County Health Department requirements.
 - (8) **Groundcover.** All areas within a campground shall have sufficient groundcover to prevent erosion and blowing dust.
- 29 (B) Size of Use.

(1) **Structure Size.** The size of structures (excluding tent platforms) used at a campground shall not exceed the following standards:

Use	Scope of Use/Campers	Total Size of Structures (Maximum)	
Level I—small scale	Up to 50 campsites	8,000 square feet	
Level II—medium scale	>50 up to 100 campsites	16,000 square feet	
Level III—large scale	>100 up to 150 campsites	32,000 square feet	
Level IV	>150 campsites	Special exception pursuant to Section 6-1300	

(C) Location on Site/Dimensional Standards. A campground shall be set back from lot lines as follows:

Use	Lot Area (Min)	Size of Structures (Max)	Setback from Lot Lines
Level I—small scale	40 acres	8,000 square feet	150 ft.
Level II—medium scale	80 acres	16,000 square feet	200 ft.
Level III—large scale	160 acres	32,000 square feet	250 ft.

(D) Landscaping/Buffering/Screening.

- (1) **Buffer.** The use shall comply with the landscaping and screening standards of Section 5-653(A).5-1404(A)(6).
- (2) **Parking Areas.** Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).

(E) Roads/Access.

- (1) General Access Standards. The use shall comply with the road access standards of Section 5-654.
- (2) **Driveways.** Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.

(3) Number of Access Points.

- (a) There shall be no more than one point of access to a public road from a Level I campground. This requirement shall not preclude an additional access for emergency vehicles only.
- (b) There shall be no more than two points of access to a public road from a Level II, III or IV campground. This requirement shall not preclude an additional access for emergency vehicles only.
- (F) **Parking.**

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I			
1		(1)	General. Parking shall be provided as required by Section 5-1102.
2 3		(2)	Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
4 5	(G	· · · · · · · · · · · · · · · · · · ·	tior Lighting Standards. All exterior lighting shall comply with the ards of Section 5-652(A) (Exterior Lighting Standards).
6 7	(H	·	Standards. The use shall comply with the noise standards of on 5-652(B) (Noise Standards).
8 9 10	an	d eco-touri	try Ski Business and Eco-Tourism. Any cross-country ski business sm use in the AR, JLMA-20 and TR-10 districts shall comply with standards:
11 12	(A	·	sity/Character of Use. The hours of operation shall be limited to a.m. to 9:00 p.m.
13	(B) Size o	of Use.
14 15		(1)	Size of Use. The minimum lot area of an eco-tourism use shall be 5 acres.
16 17		(2)	Structure Size. The size of structures used shall not exceed 5,000 square feet in gross floor area.
18 19		(3)	Storage Areas. The total area of storage areas shall not exceed 1000 square feet.
20	(C) Road	s/Access.
21 22		(1)	General Access Standards. The eco-tourism use shall comply with the road access standards in Section 5-654.
23 24 25		(2)	Number of Access Points. There shall be no more than one point of access to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
26 27	(D	· ·	Fior Lighting. The only exterior lighting allowed for an eco-tourism hall be for security purposes only.
28	(E) Parki	ng.
29 30		(1)	General. Parking and loading shall be provided as required by Section 5-1102.
31 32		(2)	Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
33 34	(F	·	acture existing prior to January 7, 2003, that is: 1) located within a ty Historic Site (HS) District or Historic and Cultural Conservation

1 2 3 4 5 6 7 8 9 10 11			in the Histor resource used a exemp above, not ex Docum demon	District under Section 6-1800 et seq.; 2) listed or eligible for listing Virginia Landmarks Register (VLR) or the National Register of ic Places (NRHP); or 3) listed or eligible for listing as a contributing ce to a VLR or NRHP listed or eligible Historic District, may be as a Cross-Country Ski Business or for Eco Tourism and shall be t from the minimum lot area and floor area requirements specified provided that any expansion or enlargement of such structure shall ceed 15% of the total floor area existing prior to January 7, 2003. Inentation shall be provided to the Zoning Administrator istrating that the Virginia Department of Historic Resources has med the listing or eligibility of structures.
12 13	5-648			Any golf course in the AR, TR, JLMA and PD-CV districts shall he following standards.
14		(A)	Intens	ity/Character.
15			(1)	Site Size. The minimum lot area for a golf course shall be:
16				(a) 75 acres for 9 holes.
17				(b) 150 acres for 18 holes.
18 19			(2)	Hours of Operation. The hours of operation for a golf course shall be limited to 6:00 a.m. to 9:00 p.m.
20 21 22			(3)	Accessory Uses. Accessory uses to a golf course may include a club house which includes a pro shop and small restaurant or café, subject to the following standards:
23 24				(a) The golf pro shop shall be limited to sales of golf-related items.
25 26				(b) Accessory uses shall constitute no more than 25 percent of the total size of the golf clubhouse.
27		(B)	Size of	f Use.
28 29 30			(1)	Structure Size. The size of structures used at a golf course shall not exceed 25,000 square feet in gross floor area (total all structures).
31 32			(2)	Storage Yards. The total area of storage yards shall not exceed 5,000 square feet.
33 34		(C)		ion on Site/Dimensional Standards. A golf course shall be set 00 feet from lot lines.
35		(D)	Parki	ng.
36			(1)	General. Parking shall be provided as required by Section 5-1102.

 1 2		(2)	Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
3	(E)	Land	scaping/ <mark>Buffering/</mark> Screening.
4 5 6		(1)	Buffer. A minimum of the first 50 feet of setback area shall be buffered, screened and landscaped consistent with the standards of The use shall comply with Section $5-653(A)$. $5-1404(A)(6)$.
7 8		(2)	Parking Areas. Parking areas shall be screened to comply with the <u>Section 5-1407</u> . requirements of <u>Section 5-653(B)</u> .
9	(F)	Road	s/Access.
10 11		(1)	General Access Standards. A golf course shall comply with the road access standards in Section 5-654.
12 13 14 15		(2)	Number of Access Points. There shall be no more than two points of access to a public road from a golf course. This requirement shall not preclude an additional access for emergency vehicles only.
16 17	(G)		tior Lighting Standards. All exterior lighting shall comply with the ards of Section 5-652(A) (Exterior Lighting Standards).
10			
18 19			aphitheater. Any outdoor amphitheater in the AR districts shall the following standards.
		oly with	
19	com	oly with	the following standards.
19 20 21	com	oly with Inten	the following standards. sity/Character. Site Size. The minimum lot area for an outdoor amphitheater shall
 19 20 21 22 23 24 25 26 27 	com	(1) (2) Size of	 the following standards. sity/Character. Site Size. The minimum lot area for an outdoor amphitheater shall be 50 acres. Accessory Uses. Accessory uses to an outdoor amphitheater may include concession facilities for the sales of drinks and food during events, and offices used solely for the purpose of operating and managing the outdoor amphitheater. The concession facilities shall constitute no more than 5,000 square feet, and be integrated
 19 20 21 22 23 24 25 26 27 28 29 	comj (A)	(1) (2) Size of exceet	 the following standards. sity/Character. Site Size. The minimum lot area for an outdoor amphitheater shall be 50 acres. Accessory Uses. Accessory uses to an outdoor amphitheater may include concession facilities for the sales of drinks and food during events, and offices used solely for the purpose of operating and managing the outdoor amphitheater. The concession facilities shall constitute no more than 5,000 square feet, and be integrated into the general structure and design of the outdoor amphitheater. of Use. The seating capacity of the outdoor amphitheater shall not
 19 20 21 22 23 24 25 26 27 28 29 30 31 	comj (A) (B)	(1) (2) Size of exceet Locat shall	 the following standards. sity/Character. Site Size. The minimum lot area for an outdoor amphitheater shall be 50 acres. Accessory Uses. Accessory uses to an outdoor amphitheater may include concession facilities for the sales of drinks and food during events, and offices used solely for the purpose of operating and managing the outdoor amphitheater. The concession facilities shall constitute no more than 5,000 square feet, and be integrated into the general structure and design of the outdoor amphitheater. of Use. The seating capacity of the outdoor amphitheater shall not d 2,000 persons.

12			(2)	Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
3		(E)	Road	ds/Access.
4 5			(1)	General. The use shall comply with the road access standards of Section 5-654.
6 7 8			(2)	Number of Access Points. There shall be no more than two points of access to an outdoor amphitheater. This requirement shall not preclude an additional access for emergency vehicles only.
9 10			(3)	Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
11		(F)	Park	cing.
12 13			(1)	General. Parking and loading shall be provided as required by Section 5-1102.
14 15			(2)	Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
16 17 18 19		(G)	standa fully	Prior Lighting Standards. All exterior lighting shall comply with the dards of Section 5-652(A) (Exterior Lighting Standards), except that shielded lighting fixtures are not required around the outdoor hitheater itself.
20 21		(H)		e Standards. The use shall comply with the noise standards of ion 5-652(B) (Noise Standards).
22 23 24	5-650	galler	y or stu	top; Art Gallery or Studio; Craft Shop. Any antique shop, art udio, or craft shop in the AR, TR-10 and PD-CV districts shall comply owing standards.
25 26		(A)		nsity/Character Standards. Hours of operation shall be limited to a.m. to 9:00 p.m.
27		(B)	Size o	of Use.
28			(1)	Site Size. The minimum lot area shall be 1 acre.
29			(2)	Structures.
30 31 32				(a) The total size of all structures used for art galleries or studios and craft shops shall not exceed 3,000 square feet in gross floor area.
33 34				(b) The total size of all structures used for antique shops shall not exceed 10,000 square feet in gross floor area.

- 1 (C) Location on Site/Dimensional Standards. The antique shop, art gallery 2 or studio, or craft shop shall be set back a minimum of 100 feet from all 3 lot lines. 4 (D) Landscaping/Buffering/Screening. 5 Buffer. The use shall comply with the landscaping and screening (1)standards of Section 5-653(A).5-1404(A)(6) 6 7 (2) **Parking Areas.** Parking areas shall be screened to comply with theSection 5-1407. requirements of Section 5-653(B). 8 9 (E) Parking. General. Parking and loading shall be provided as required by 10 (1)11 Section 5-1102. Surface. All parking areas serving the use shall use a dust-free 12 (2)surfacing material as provided in the Facilities Standards Manual. 13 14 (F) **Roads/Access Standards.** General Access Standards. The use shall comply with the road 15 (1)access standards in Section 5-654. 16 Number of Access Points. The use shall have no more than one 17 (2)point of access to a public road. This requirement shall not 18 19 preclude an additional access for emergency vehicles only. 20 Exterior Lighting Standards. All exterior lighting shall comply with the (G) 21 standards of Section 5-652(A) (Exterior Lighting Standards). 22 (H) **Noise.** The use shall comply with the noise standards of Section 5-652(B) 23 (Noise Standards). 24 A structure existing prior to January 7, 2003, that is: 1) located within a (I) 25 County Historic Site (HS) District or Historic and Cultural Conservation (HCC) District under Section 6-1800 et seq.; 2) listed or eligible for listing 26 in the Virginia Landmarks Register (VLR) or the National Register of 27 28 Historic Places (NRHP); or 3) listed or eligible for listing as a contributing 29 resource to a VLR or NRHP listed or eligible Historic District, may be used as an Antique Shop; Art Gallery or Studio; or Craft shop shall be 30 31 exempt from the minimum lot area, set back from lot line, and floor area 32 requirements, provided that any expansion or enlargement of such structure shall not exceed 15% of the total floor area existing prior to 33 34 January 7,2003. Documentation shall be provided to the Zoning 35 Administrator demonstrating that the Virginia Department of Historic Resources has confirmed the listing or eligibility of structures. 36 37
- 375-651Auction House. Any auction house in the AR districts shall comply with the
following standards.

1	(A)	Inten	sity/Character Standards.
2 3		(1)	Hours of Operation. Hours of operation shall be limited to 8:00 a.m. to 9:00 p.m.
4 5 6		(2)	Sanitary Facilities. Bathroom facilities shall be provided on site, consistent with the requirements of the Uniform Statewide Building Code.
7	(B)	Size o	of Use.
8		(1)	Site Size. The minimum lot area shall be 10 acres.
9 10		(2)	Structure. There shall be only one structure allowed on the lot which shall not exceed 10,000 square feet in size.
11 12		(3)	Outdoor Storage. The maximum area of outdoor storage shall not exceed 2,000 square feet.
13 14	(C)		tion on Site/Dimensional Standards. The auction house shall be ck a minimum of 100 feet from all lot lines.
15	(D)	Land	scaping/Buffering/Screening.
16 17		(1)	Buffer. The use shall comply with the landscaping and screening standards of Section $5-653(A)$. $5-1404(A)(6)$.
18 19		(2)	Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
20 21 22		(3)	Outdoor Storage. All outdoor storage shall be screened and landscaped consistent with the standards of comply with Section 5-653(C): <u>5-1406.</u>
23	(E)	Road	s/Access Standards.
24 25		(1)	General Access Standards. An auction house shall comply with the road access standards in Section 5-654.
26 27		(2)	Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
28 29 30		(3)	Number of Access Points. There shall be no more than one point of access to a public road. This requirement shall not preclude an additional access for emergency vehicles only.
31	(F)	Parki	ng.
32 33		(1)	General. Parking and loading shall be provided as required by Section 5-1102.

1 2			(2)	Surface. All parking areas serving the use shall use a dust-free surfacing material as provided in the Facilities Standards Manual.
3 4		(G)		ior Lighting Standards. All exterior lighting shall comply with the ards of Section 5-652(A) (Exterior Lighting Standards).
5 6		(H)		Standards. The use shall comply with the noise standards of on 5-652(B) (Noise Standards).
7 8 9 10 11 12 13 14 15 16 17 18		(I)	Count (HCC in the Histor resour used a and se enlarg existin Zonin	acture existing prior to January 7, 2003, that is: 1) located within a ty Historic Site (HS) District or Historic and Cultural Conservation) District under Section 6-1800 et seq.; 2) listed or eligible for listing Virginia Landmarks Register (VLR) or the National Register of the Places (NRHP); or 3) listed or eligible for listing as a contributing tree to a VLR or NRHP listed or eligible Historic District, may be as an Auction House and shall be exempt from the minimum lot area, et back from lot line requirements, provided that any expansion or gement of such structure shall not exceed 15% of the total floor area and prior to January 7, 2003. Documentation shall be provided to the g Administrator demonstrating that the Virginia Department of the Resources has confirmed the listing or eligibility of structures.
19 20 21	5-652	exterio	or light	Shting and Noise Standards for Specific Uses. The following ing and noise standards shall apply to specific uses in this section e expressly referenced in the standards for the specific use.
22		(A)	Exter	ior Lighting Standards.
23 24			(1)	Pole-Mounted Exterior Lighting. The maximum height of pole- mounted exterior lighting shall be 25 feet.
25 26 27			(2)	Shielded Lighting/Light Element. Fully shielded lighting fixtures shall be used in all areas. The light element (lamp or globe) of a fixture shall not extend below the cutoff shield.
28 29 30			(3)	Hours of Operation. All exterior lighting shall be extinguished from 10:00 p.m. to 6:00 a.m., except for exterior lighting that is determined necessary for security purposes.
31 32			(4)	No Illuminated Signage. Signage related to the use shall not be illuminated.
33		(B)	Noise	Standards.
34 35 36			(1)	Location in Relation to Residential Use. No loading/unloading activities or other noise-producing activities shall be allowed within 250 feet of an existing single family residential use.
37 38			(2)	Maximum dB(A). The maximum allowable dB(A) level of impulsive sound emitted from the use, as measured at the property

1 2 3		single family dwelling unit as a principal use, shall not exceed 55 dB(A). In addition, outdoor music shall not be allowed after 11:00 PM.
4 5 6	5-653	[RESERVED] Landscaping Standards for Specific Uses. The following landscaping, buffering, and screening standards shall apply to specific uses in this section when they are expressly referenced in the standards for the specific use.
7 8 9 10 11 12 13 14 15 16		(A) Setbacks or Yards Adjacent to Certain Sized Lots. A minimum of the first 50 feet of setback or yard area adjacent to any existing lot four (4) acres or less in size that contains a house within 300 feet of the adjacent property line shall be landscaped and screened with solid fencing and/or landscaped area that provides year round screening and is equivalent to a Type Three (3) Buffer Yard (Section 5-1400). The use of natural topography, vegetation, and trees that provide screening at the density, depth and height of the Type Three (3) Buffer Yard requirement in accordance with Section 5-1409(E).
17 18 19		(1) In the A-3, A-10, AR-1, and AR-2 zoning districts, the Zoning Administrator may permit the required buffer to surround the proposed use, rather than to be located on the property line.
20 21 22 23 24 25		(B) Parking Areas. Parking areas shall be provided with 1 canopy tree per each 10 parking or 2 loading spaces for off-street parking areas and service areas for loading and unloading. The Zoning Administrator may waive, reduce and/or modify these tree planting requirements if in his/her opinion the topography or existing vegetation adequately screens such parking areas from adjacent properties.
26 27 28 29		(C) Screening of Outdoor Storage and Storage Yards. Outdoor storage and storage yards shall be screened to minimize visibility from adjacent public roads and adjacent single family detached uses by six (6) canopy trees per one hundred (100) lineal feet of perimeter of storage area.
30 31 32 33	5-654	Road Access Standards for Specific Uses. The following road access standards shall apply to specific uses in this section when they are expressly referenced in the standards for specific use. All Facilities Standards Manual provisions regarding waivers apply.

TABLE 5-654: ROAD ACCESS STANDARDS							
Maximum Vehicles		Public Road Access					
Per Day (VPD) ⁽¹⁾	Construction Standards	Public Paved Road Standards ⁽²⁾	Public Unpaved Road Standards ⁽²⁾				
1 - 20 VTD	FSM Chapter 4, Table 3, Type C1 Roadway	Permitted	Permitted				
21 - 70 VTD	FSM Chapter 4, Table 3, Type C2 Roadway	Permitted	Permitted				

Maximum Ve	hicles	Onsite Private Road	Public Road Access		
Per Day (VPD		Construction Standards	Public Paved Standards ⁽²⁾	Road P	Public Unpaved Standards ⁽²⁾
71 - 250 VTD		FSM Chapter 4, Table 3, Type C3 Roadway	Permitted		Permitted
251 - 600 VTD		FSM Chapter 4, Table 1, Type A1 Roadway	Permitted	re	pecial Exception Re equired (Section 6-1
More than 600 V		FSM Chapter 4, Table 1, Type A1 Roadway	Special Exception required (Section	n 6-1300) re	pecial Exception Re equired (Section 6-1
		ased on an estimated two trips (one public road accessed by project's p			le.
5-655	Flem	entary, Middle, or High Scl	hool for 15 or f	ewer nunil	8
5-055					
	(A)	Size of Use. The minimus school for fifteen (15) or permitted on smaller lots in	fewer pupils is	s 5 acres, ez	xcept to the ext
	(B)	Road/Access Standards s Section 5-654.	hall comply wi	th the road	access standards
	(C)	Exterior Lighting Standa standards of Section 5-652		0 0	1 .
	(D)	Outdoor play space shall be established in Section 5-60 in accordance with the stan	9 Child Outdo	or play spac	e shall be provi
5-656		vent or Monastery. In the stery shall comply with the fo			
	(A)	Intensity/Character.			
		(1) The minimum lot a monastery is develo 5-656(A)(2):		· · · · ·	
		Use		Size of Lo (Minimun	
		Level I – small scal	e	5 acres	4-10 residents
		Level II – medium	scale	10 acres	11-20 resident
		Level III – large sca		20 acres	21-30 resident
		Level IV- requires s approval pursuant		30 acres	31-40 residen
		1300			

1 2		(2)		num Required Yard Standards. The minimum required shall be as follows:
3			(a)	Level I – small scale: 50 feet minimum from all lot lines;
4 5			(b)	Level II – medium scale: 100 feet minimum from all lot lines
6			(c)	Level III- large scale: 150 feet minimum from all lot lines
7		(3)	Lands	scaping/Buffering/Screening.
8 9			(a)	The use shall comply with the landscaping and screening standards of Section $5-653(A)$. $5-1404(A)(6)$.
10 11			(b)	Parking areas shall be screened to comply with the <u>Section</u> <u>5-1407.</u> standards of Section 5-653(B).
12 13			(c)	Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.
14 15		(4)		s/Access. The convent or monastery shall comply with the ccess standards in Section 5-654.
16		(5)	Parki	ng.
17 18			(a)	General. Parking and loading shall be provided as required by Section 5-1102.
19 20 21			(b)	Surface. All parking areas serving the use shall use a dust-free surfacing material, as provided in the Facilities Standards Manual.
22 23		(6)		ior Lighting. All exterior lighting shall comply with the urds of Section 5-652(A) Exterior Lighting Standards.
24 25 26 27 28 29 30 31 32 33 34 35 36	(C)	Count (HCC) in the Histor resour used a minim any ex the tot be pro Depar	y Histo Distric Virgin ic Place ice to a as a Co num lot cpansion cal floor ovided to	xisting prior to January 7, 2003, that is: 1) located within a ric Site (HS) District or Historic and Cultural Conservation et under Section 6-1800 et seq.; 2) listed or eligible for listing ia Landmarks Register (VLR) or the National Register of es (NRHP); or 3) listed or eligible for listing as a contributing VLR or NRHP listed or eligible Historic District, may be nvent or Monastery and shall be exempt from the Level I area, yard and floor area ratio requirements, provided that n or enlargement of such structure shall not exceed 15% of area existing prior to January 7, 2003. Documentation shall o the Zoning Administrator demonstrating that the Virginia of Historic Resources has confirmed the listing or eligibility

1 2	5-657	-			Any stockpiling of dirt in the AR and TR districts shall wing standards:
3		(A)	Intens	ity/Cha	aracter Standards.
4			(1)	Size of	f Use.
5				(a)	Minimum Lot Size. Five (5) Acres
6 7				(b)	Pile Area. A single stockpile of dirt pile shall not exceed an area greater than two (2) acres.
8 9 10 11 12 13 14				(c)	Height. A single stockpile of dirt shall not exceed 25 feet above original natural grade. For each additional five (5) acres in lot area, the height may increase one (1) foot and in no case shall the height exceed 50 feet above original natural grade. Additionally, no stockpile shall be visible above the existing tree line as viewed from any property line.
15				(d)	Slope. Slope shall not exceed a 3:1 ratio.
16			(2)	Siting.	
17 18				(a)	No stockpile of dirt is permitted in the Mountainside Overlay District and/or FOD.
19 20 21				(b)	To the maximum extent feasible stockpiles of dirt shall not be located in wetlands, hydric soils, or areas identified as containing endangered species or plants.
22 23				(c)	Stockpiles of dirt shall only be permitted on forested sites when there is an approved forest management plan.
24			(3)	Locati	on on Site/Dimensional Standards.
25 26 27 28				(a)	Setback from Single-Family Dwellings. No stockpile of dirt, loading/unloading activities, general stockpile of dirt operations, or related activities shall be allowed within 500 feet of an existing residential structure.
29 30 31				(b)	Other setbacks. No stockpile of dirt shall be located within 100 feet of any lot line and/or street to include ingress-egress easements.
32 33			(4)		of Operation. The hours of operation shall be limited to M to 6:00 PM.
34		(B)	Access	s/Vehic	ular Circulation.

1 (1) Access. Access to the lot shall be from a paved, State maintained 2 road at least twenty (20) feet in width. 3 (2)Driveways/Internal Access Roads (driveways). Driveways shall not be located within a required buffered setback area except as 4 5 minimally necessary to access the site. Such driveways shall be all-weather roads negotiable by loaded transport vehicles. 6 7 (3) Vehicular Circulation. Adequate-stacking space shall be 8 provided on site to accommodate anticipated traffic. Such stacking space shall be screened in accordance with the requirements in 9 10 Section 5-650(B). Debris. To prevent the tracking of debris, mud, dirt or other 11 (4) material on public rights-of-way, the public rights-of-way shall be 12 hosed off on a daily basis when the stockpile of dirt facility is in 13 operation. During winter months the road shall be chemically 14 treated to prevent icing conditions after hosing off the road. 15 16 (C) Materials. Stockpiles of dirt may be comprised only of uncontaminated dirt and naturally occurring rock. Incorporated organic material, including 17 roots, twigs, limbs, logs, leaves, and grass may not exceed three (3) 18 percent by volume at any location in the stockpile of dirt. Processing 19 20 within the stockpile of dirt is limited to grading, sorting, and compacting 21 of dirt and waste rock. Screening of dirt shall not be permitted. Exterior Lighting. Exterior Lighting shall be permitted for security 22 (D) 23 purposes only and in accordance with Section 5-649. Signage for the 24 stockpile of dirt use shall not be illuminated. 25 (E) Landscaping—<u>and</u>/Buffering/—Screening. <u>Landscaping</u> and Screening The use shall be provided in accordance comply with Section 5-26 27 1404(A)(6).5-650. Noise. Noise created by the activity at the stockpile of dirt shall comply 28 (F) 29 with Section 5-649(B). 30 **Compliance with other Ordinances.** Nothing herein shall relieve the stockpile of dirt activity from complying with other Federal, State or County Codes. Where 31 32 there is a conflict in the applicable ordinances, the more restrictive shall apply. A 33 Zoning Permit is required prior to the commencement of the Stockpiling of Dirt. In addition, prior to commencing any stockpile of dirt activity, a preliminary soil 34 report shall be provided to the County Soil Scientist in accordance with Chapter 35 6 of the Facilities Standards Manual. 36 37 5-658 Funeral Homes. Funeral homes, when located within the PD-IP zoning district, are subject to the following additional provisions: 38 39 (A) The funeral home must be located within a freestanding building and be the sole principal use on the lot.

1 **(B)** The minimum lot size for a funeral home use shall be 1.5 acres. 2 (C) The funeral home use shall be established on a parcel of land fronting on, 3 and with direct access to, an existing collector or arterial road. 4 (D) Sufficient car stacking space shall be provided on the lot such that a 5 collector or arterial road need not be used for the forming of funeral processions. The area of the lot used for the forming of funeral processions 6 shall have direct, but limited, access to the collector or arterial road. 7 8 5-659 Drive-through Facilities Associated With Banks, Financial Institutions and 9 Pharmacies. Drive-through facilities with up to 3 service lanes and an escape 10 lane shall be permitted in association with banks, financial institutions and pharmacies that also provide a standard range of customer services in a building, 11 subject to the following additional provisions: 12 13 Notwithstanding the requirements of Section 5-1400(A) and (B), where (A) 14 Where the bank or financial institution or pharmacy property abuts a any property zoned, used, or planned for residentially-residential uses zoned 15 or used property a Buffer Yard Type Four (4)C Rear Yard Buffer 16 including structure shall be provided adjacent to such property, the 17 residential property (Section 5-1400), except this that this requirement 18 shall not apply to vertically mixed-use buildings containing residential 19 20 uses in the PD-MUB or PD-TC zoning districts. In lieu of the maximum 21 percentages applicable to large deciduous trees under Section 5-22 1408(B)(2)(a), small deciduous trees under Section 5-1408(B)(2)(c), and 23 evergreen trees under Section 5-1408(B)(2)(b), a maximum of 30% of the required plant units may be large deciduous trees and/or small deciduous 24 trees. All other plant units shall consist of evergreen trees and/or evergreen 25 shrubs. Further, 70% of canopy trees and 100% of all other plants required 26 27 in the buffer shall be evergreens. Stacking space shall be sufficient to avoid vehicle stacking into drive 28 **(B)** 29 lanes, parking spaces and public streets. 30 5-660 **Country Club.** Country clubs in the AR-1 and AR-2 shall comply with the 31 following standards. Throughout this section, "Lot Area" shall include the total 32 acreage of abutting parcels under common ownership and control, or under a 33 common development plan, and "Property Line" shall be the outer line of the 34 properties under common ownership and control, or under a common development plan." 35 Intensity/Character. The minimum lot area shall be as follows: 36 (A)

Use	Lot Area (Minimum)
Level I-small scale	50 acres
Level II-medium scale	75 acres
Level III-large scale	150 acres

(B) Size of Use.

- (1) Floor Area Ratio. The maximum floor area ratio shall be 0.04.
- (2) **Maximum Structure Size.** The maximum size of structures shall be as follows:

Use	Maximum Total Size of Permitted Principal Structures (GFA)				
Level I—small scale	25,000 sq. ft.				
Level II—medium scale	50,000 sq. ft.				
Level III—large scale	75,000 sq. ft.				

(3) Accessory Structures. The total area of all accessory structures shall not exceed 15 percent of the total gross floor area of the principal structures used for the Country Club use.

(4) **Distribution of Uses.**

Use	Total Maximum Gross Floor Area of the Principal Permitted Structures
Dining and Restaurant Facilities	30 percent
Banquet and Conference Facilities	25 percent
Spa and Health Facilities	15 percent

(C) Use Limitations.

- (1) Enclosed principal structures for dining and banquet facilities, conference facilities, spa, fitness facilities, and recreational activities (such as pool and tennis) shall be sited and designed to take advantage of the topography and existing vegetation to blend into the rural landscape to the maximum extent feasible. Such principal structures shall be clustered to maximize usage of site infrastructure (i.e. parking, travelway, utilities). Principal structures that have reason to be separated from the main Country Club complex (e.g. maintenance facilities, structures housing livestock) are not required to be clustered.
- (2) Structures shall be sited to minimize visual impacts on adjacent properties and promote the rural character of the landscape. Siting on primary ridgelines or hilltops, if visible from the adjacent public roadways is prohibited; however, if, because of engineering constraints (e.g. utility easements, drainage, access easements, soil conditions, etc.) it becomes necessary to site a facility on a primary

1 2 3			ridgeline or hilltop, then the applicant shall provide additional landscaping and buffering to mitigate the visual impact from adjacent public roadways.
4	(D)	Minin	num Required Yards.
5 6 7 8		(1)	Principal and accessory structures shall have a minimum yard of 50 feet from all property lines (the "property line" is determined to be the outer line of the properties under common ownership and control).
9 10 11		(2)	In order to encourage preservation of environmental resources, the yard requirements may be reduced up to 25% by the Zoning Administrator.
12 13		(3)	Accessory structures, not requiring a building permit, may be located a minimum of 25 feet from all property lines.
14	(E)	Lands	caping/Buffering/Screening.
15 16 17 18 19 20 21 22		(1)	Buffer. Principal or accessory structures associated with the Country Club use shall comply with theprovide a Buffer Yard Type 3-B in accordance with landscaping and screening standards of Section 5-1414(B(3)5-1404(D) where adjacent to parcels of 3 acres or less that are not part of a common development plan. In order to take advantage of natural topography, vegetation, and trees, the required yard or setback buffer area may be located anywhere between the use and the property line.
23 24		(2)	Parking Areas. Parking areas shall be screened to comply with the Section 5-1407. requirements of Section 5-653(B).
25 26 27		(3)	Storage Yards. All storage yards shall be screened and landscaped consistent with the standards of comply with Section 5-653(C).5-1406.
28	(F)	Roads	Access.
29 30		(1)	General. The country club use shall comply with the road access standards of Section 5-654.
31 32 33 34		(2)	Number of Access Points. There shall be no more than two direct points of access from a Country Club use to a public road. This requirement shall not preclude an additional access for emergency vehicles.
35 36		(3)	Driveways. Driveways shall not be located within a required buffer yard area except as minimally necessary to access the site.

1 (G) Water and Sewer. A Country Club shall be served by a communal water 2 system and a communal wastewater collection and pre-treatment or 3 treatment system. 4 (H) Parking. General. Parking and loading shall be provided as required by 5 (1)6 Section 5-1102. 7 (2)Surface. Where practicable, a pervious surface shall be provided. Where not practicable, a dust-free surfacing material shall be 8 provided in accordance with the requirements of the Facilities 9 10 Standards Manual. Exterior Lighting Standards. All exterior lighting shall comply with the 11 (I) 12 standards of Section 5-652(A) (Exterior Lighting Standards). Noise Standards. The maximum allowable dB(A) level of impulsive 13 **(**J**)** 14 sound from the site, as measured at the property line, shall not exceed 55 15 dB(A). 16 5-661 **Business Service Establishment.** Retail sales to the general public shall not exceed twenty percent (20%) of 17 (A) 18 the gross floor area devoted to the business service establishment. **Contractor Service Establishment.** 19 5-662 20 (A) Retail sales to the general public shall not exceed ten percent (10%) of the gross floor area devoted to the contractor service establishment. 21 22 Outdoor storage of equipment, supplies, and construction trailers are **(B)** permitted, provided such are fully screened from public roads and adjacent 23 24 lots where contractor service establishments are permitted. 25 5-663 Wholesale Trade Establishment. 26 (A) Retail sales to the general public shall not exceed twenty percent (20%) of the gross floor area devoted to the wholesale trade establishment. 27 28 5-664 Data Center. The following standards shall apply to data centers in the CLI, PD-29 OP, PD-RDP, and PD-IP zoning districts. 30 (A) Principal Building Facades. Principal building facades shall include all building facades that face adjacent public roads. Principal building 31 32 facades associated with new construction shall meet the following 33 standards: 34 (1) Principal building facades shall avoid the use of undifferentiated 35 surfaces by including at least two (2) of the following design elements: change in building height, building step-backs or 36

1 2		recesses, fenestration, change in building material, pattern, texture, color, or use of accent materials.
2		
3 4 5		(2) When a building has more than one principal facade, such principal building facades shall be consistent in terms of design, materials, details, and treatment.
ſ	(\mathbf{D})	Comming of Machanical Environment In subjects with initial
6	(B)	Screening of Mechanical Equipment. In order to minimize visibility
7 8		from adjacent roads and adjacent properties, ground level and roof top
8 9		mechanical equipment shall be screened. This screening may be provided by a principal building. Mechanical equipment not screened by a principal
9 10		building shall be screened by a visually solid fence, screen wall or panel,
10		parapet wall, or other visually solid screen that shall be constructed of
11		materials compatible with those used in the exterior construction of the
12		principal building. Notwithstanding the requirements of this section,
13		mechanical equipment located in a manner found to have no adverse
15		impact on adjacent roads and adjacent properties, as determined by the
16		Zoning Administrator, shall not be required to be screened.
17	(C)	Exterior Lighting. All exterior lighting shall be designed and constructed
18		with cutoff and fully shielded fixtures that direct light downward and into
19		the interior of the property and away from adjacent roads and adjacent
20		properties.
21	(D)	Pedestrian and Bicycle Facilities.
22		(1) Provision of Sidewalks and/or Trails. Sidewalks and/or trails for
23		pedestrian and/or bicycle access shall be provided, at a minimum,
24		along any side of a public road that abuts the property upon which
25		the data center is located.
26		(2) Sidewalk and/or Trail Connections. To provide for future
27		sidewalk and/or trail connections, the sidewalks and/or trails for
28		pedestrian and/or bicycle access provided pursuant to Section 5-
29		664(D)(1) above shall be equivalent to any other sidewalk and/or
30		trail for pedestrian and/or bicycle access that is located on the same
31		side of the public road, and within 500 feet, of the property upon
32		which the data center is located.
33	<u>(E)</u>	<u>Buffer Yard RequirementBuffering/Landscaping/Screening</u> .
34		(1) –Buffer Yards. In lieu of the buffer yard required under Table 5-
35		1404(B), any side/rear yard abutting property located within the
36		CR, JLMA, TR, R, PD-H, PD-CV, PD-RV, or PD-AAAR zoning
37		districts that is not developed with commercial or industrial uses
38		shall include a Buffer Yard Type C with required plantings located
39		on an earthen berm that has a minimum height of six (6) feet and
40		shall not have a grade steeper than 2:1.

1			
	1 (2)	Road	Corridor Buffer. In lieu of the road corridor buffer required
	2	under	Section 5-1403(B), any front yard abutting a collector or
	3		al road shall include a Road Corridor Buffer Type 3 with
	4		red plantings located on an earthen berm that has a minimum
	5		t of six (6) feet and shall not have a grade steeper than 2:1,
	6		s a Gateway Corridor Buffer is required in which case the
	7		vay Corridor Buffer shall be provided. In lieu of the buffer
	8		requirement in Table 5-1414(A) of Section 5-1414, any
	9		ear yard abutting property that is not developed for
	10		nercial or industrial uses located in any one of the following
	11		g districts: CR, JLMA, TR, R, PD-H, PD-CV, PD-RV, and
	12		AAR shall include Type 4 buffer yard required plantings
	13		led on an earthen berm that has a minimum height of six (6)
	14		nd a slope not steeper than 2:1. The Type 4 buffer yard width
	15		equired plantings shall be as set forth in Table 5-1414(B) of
	16		on 5-1414 and installed in accordance with the requirements
	17		ction 5-1400, Buffering and Screening.
	18 (3)	In lieu	a of the requirements of Section 5-1408(B)(2), the following
	19	requir	rements shall apply to the plant types used to meet Section 5-
	20	<u>664(E</u>	E)(1) and Section 5-664(E)(2). Maximum percentages shall
	21	apply	solely in determining the quantity of a given plant type that
	22	<u>can b</u>	e counted towards meeting a Plant Unit requirement, and
	23	<u>shall 1</u>	not preclude the installation of additional plant material from
	24	that p	lant type, if desired.
	25	<u>(a)</u>	A maximum of 30% of the required plant units may be
	26		large deciduous trees.
	27	(b)	A minimum of 40% and a maximum of 70% of the required
	28	(0)	plant units shall be evergreen trees that are a minimum of
	29		eight (8) feet in height at the time of planting.
	2)		eight (6) feet in height at the time of planting.
	30	(c)	A maximum of 30% of the required plant units may be
	31	<u>.</u>	small deciduous trees.
	32	<u>(d)</u>	A maximum of 20% of the required plant units may be a
	33		combination of shrubs, ornamental grasses, and perennials.
	34	<u>(e)</u>	Use of natural topography and preservation of existing
	35		vegetation, supplemented by new vegetation, if needed,
	36		may be substituted for the above requirements if
	37		determined by the County Urban Forester to provide
	38		screening at the density, depth, and height equivalent to the
	39		Buffer Yard Type C with earthen berm required under Section 5 ($(4(E)(1) - E) = 1$ Consider Type 2 solid souther
	40		Section 5-664(E)(1) or Road Corridor Type 3 with earthen
	41		<u>berm required under Section 5-664(E)(2).</u>
	42	(f)	The maximum percentages of plant types provided under
	43	<u>(1)</u>	(a) through (d) above shall be applied along each property
I			(u) and agn (u) addie bhan de applied along each property

12			line where the buffer yard or road corridor buffer is required.
3 4 5 6 7 8			(3) <u>all</u> Notwithstanding the requirements of this section, use of natural topography and preservation of existing vegetation, supplemented by new vegetation, if needed, may be substituted for the above requirements when found by the County Urban Forester to provide screening at the density, depth, and height equivalent to the Type 4 buffer yard with earthen berm.
9 10	5-665		ige, Mini-Warehouse. A storage mini-warehouse use shall comply with the wing regulations in the GB, PD-IP and PD-GI zoning districts.
11 12 13 14 15 16 17		(A)	BufferBuffering/Screening/Landscaping. -The use shall comply with Section 5-1400. When the use abuts a major collector road, in lieu of the road corridor buffer for other major collector roads required under Section 5-1403(B), a Road Corridor Buffer Type 3 shall be provided. be screened with landscaping that provides year-round screening and is equivalent to a Type Three (3) Buffer Yard (Section 5-1400) when located adjacent to or adjoining major roadways or residential uses.
18 19 20 21 22 23		(B)	Security. If a security device is provided for the building or a security fence is installed around the use, in consultation with Fire, Rescue and Emergency Services, the owner shall demonstrate on the site plan the selection of a device to allow adequate and timely access of emergency vehicles to the storage, mini-warehouse use and such device shall be installed prior to occupancy permit.
24 25		(C)	Exterior Lighting Standards. All exterior lighting shall comply with the standards of Section 5-652(A)(Exterior Lighting Standards).
26 27		(D)	The storage, mini-warehouse use shall comply with the road access standards of Section 5-654.
28	5-666	Schoo	ols, Public (Elementary, Middle or High).
29 30		(A)	Utilities. All public schools shall be served by either central or municipal sewer and water utilities.
31		(B)	Lighting:
32 33 34 35 36			(1) Light Fixtures. Exterior building lighting, including security lighting, and parking lot lighting shall be full cutoff and fully shielded and shall direct light downwards and into the interior of the property and away from surrounding public or private roads and properties.
37 38 39 40			(2) Exterior Building Lighting. Exterior building lighting, including security lighting, shall not exceed a maximum average illumination of five (5) foot-candles at grade level unless otherwise required by law, ordinance, or regulation.

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(C)

light fixture shall not exceed 20 feet, except for light poles for athletic fields. Height shall be measured from the ground to the light fixture.

feet in height.

occurs first.

(3)

(4)

(5)

Landscaping/Buffering/-and-Screening. In addition to meeting the Buffering and Screening requirements of Section 5-14001404(B), Public Schools shall provide an additional five (5) evergreen trees per one hundred (100) linear feet along all side yard and rear yard buffers adjoining existing residential uses, except where existing vegetation is to be preserved and provides an equivalent buffer in accordance with the provisions of Section 5-1400.

Parking Lot Lighting. Parking lot lighting shall not exceed a

maximum average illumination of two (2) foot-candles at grade level. Parking lot lighting shall be turned off within one hour

following the end of evening activities, or by 11 p.m., whichever

Recreational and Athletic Fields and Facilities Lighting.

Lighting for recreational and athletic fields and facilities shall be

turned off by 11 p.m., shall be directed inward and downward

toward the field being illuminated, shall incorporate a reflector technology system that directs light onto the field being

illuminated and shall be cut-off and shielded in directions away

from the recreational or athletic field to minimizes glare and

spillage onto adjacent properties. Lighting for recreational and

athletic fields and facilities must not cause illumination in excess

of ten foot-candles above background light levels measured at the

boundary of any residential district, or, in residential or

agricultural districts, at the lot line of any adjacent lot. Light poles

for recreational and athletic fields and facilities shall not exceed 80

Height of Light Fixtures. The mounting height of any exterior

(D) Trails. Any on-site pedestrian circulation network shall be designed so as to connect to any existing or proposed public use trails on adjacent properties which are designed to abut or connect to the public school site.

- (E) **Bike Racks.** At least one bike rack shall be installed at the Public School building with space to accommodate at least 10 bicycles.
 - (F) Noise. Installation of outdoor public address systems shall be limited to the recreational and athletic fields. Noise emanating from the public address system shall not exceed 60 dBA at the property boundaries and use of the system shall be prohibited after 11 p.m. and before 8:00 a.m.
- (G) Setbacks:
 - (1)From Agriculture or Residential. Principal Public School buildings shall have a minimum setback of fifty (50) feet from

adjacent agriculturally or residentially zoned properties or, if located within a mixed use zoning district, from any land bay designated for agricultural or residential use. Such building setback shall not apply to accessory public school buildings, but such accessory buildings must conform to applicable zoning district yard requirements.

(2) **From Industrial/Commercial/Office.** Principal Public School buildings shall have a minimum setback of one hundred (100) feet from adjacent industrial, commercial or office zoned properties or, if located within a mixed use zoning district, from any land bay designated for industrial, commercial or office uses. Such building setback shall not apply to accessory public school buildings, but such accessory buildings must conform to applicable zoning district yard requirements.

(H) **Building and Site Design.**

- (1) **Stormwater Management.** Unless stormwater management is to be provided by an existing approved off-site storm water management facility, stormwater management and Best Management Practices shall be used on-site, in accordance with the Virginia Stormwater Management Handbook and the Loudoun County Facilities Standards Manual.
- (2) **Bus Parking Area.** Stormwater runoff from the bus parking area shall be routed to an oil and water separator or a system providing equivalent treatment for water quality purposes.
- (3) **Design.** Public school building design shall avoid the use of continuous plane building surfaces and wherever practicable shall break up large building segments into smaller segments through the use of fenestration and setbacks. Public School buildings shall include accent materials around the building exterior to provide further architectural interest.
- (4) The following erosion and sediment control practices shall be required during construction where an outfall drains to a sensitive environmental feature (streams, wetlands, and very steep slopes). In such instances these requirements shall be applied adjacent to the sensitive environmental feature if on-site, or if off-site, along the property line(s) proximate to the sensitive environmental feature:
 - (a) Super silt fence shall be substituted for silt fence;
 - (b) Sediment traps and basins shall provide double the minimum required volume (268 cubic yards per acre) except that this volume may be reduced to avoid impacts to sensitive environmental features;

1 2			(c)	Stabilization matting shall be required in all vegetated, constructed channels and on slopes greater than 3:1.
3		(5)	Flood	plain:
4 5 6 7 8 9			(a)	A maximum of 20% of on-site areas in major and minor floodplain may be used for utilities, trails or other uses permitted within the floodplain, exclusive of road crossings. Areas so used shall be excluded from the calculation for meeting the forest cover requirement of (c) below;
10 11 12 13			(b)	Road Crossings shall not be subject to the use limitation of (a) above, and areas used for road crossings shall be excluded from the calculation for meeting the forest cover requirement of (c) below;
14 15 16 17 18 19 20			(c)	Unless excluded by (a) or (b) above, 80% of major and minor floodplain located on-site shall be forested, either through the retention of existing forest cover or through the planting of unforested floodplain with at least five different native deciduous species at a density of 300 3-gallon plants (180 canopy trees and 120 understory trees) per acre on a 12 x 12 grid.
21	(I)	Trans	portatio	on.
22 23 24 25 26 27		(1)	paved, a publi means unpave	Schools shall be located with direct access to at least one public road, or to at least one paved private road subject to ic access easement. Public Schools shall have a secondary of access, which may be provided by either a paved or ed roadway. Access to a public school site shall be capable public modating traffic generated by the site.
28 29		(2)		ces/Exits shall be provided with sight distances adequate to ninimum Virginia Department of Transportation standards.
30 31		(3)		and left turn lanes, into and out of a site, shall be provided, ded, to accommodate traffic generated by the site.
32 33 34		(4)	to a sc	nalized intersections (stop signs or traffic signals) adjacent hool site, crosswalks shall be provided to access the site, as d, to accommodate pedestrian traffic generated by the site.
35 36 37 38 39 40 41		(5)	Faciliti conjun buildin include left tu	fic impact analysis, in conformance with the County's ies Standards Manual, shall be provided to the County in action with each site plan application for a Public School ng, and such traffic impact analysis shall specifically e, but not be limited to, an analysis of the need for right and rn lanes into and out of the public school site and the valks to provide pedestrian access to the public school site.

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- (J) No Public School shall be located within the portions of the County subject to the Airport Impact Overlay District Ldn 65 or higher aircraft noise contour.
- (K) A Phase I Archaeological survey shall be provided to the County in conjunction with each site plan application for a Public School building.
- 5-667 **Brewery, Limited.** A limited brewery shall be licensed as a Limited Brewery in accordance with Section 4.1-208 of the Code of Virginia, as amended, and shall be located in the AR-1, AR-2, A-10, or A-3 districts. No Limited Brewery shall be established either as the initial use of the subject property or by change of use of the property until a sketch plan has been approved. The owner of a limited brewery is requested to contact the Loudoun County Department of Fire, Rescue and Emergency Management and Department of Building and Development for an informational inspection of the building(s) or structure(s) to be used for the limited brewery prior to establishing use.
 - Sketch Plan. A sketch plan is required as part of a zoning permit (A) application for a Limited Brewery. Such sketch plans shall include the following:
 - (1) Property boundaries;
 - Location, function (manufacturing, storage, tasting, residence, (2) etc.), size and dimensions of structure(s) and outdoor area(s). If structure(s) are located more than 300 feet from the property line approximate distances may be provided;
 - Location of residences not located on the property that are within (3)300' of a structure;
 - (4)Location and dimensions of all ingress/egress points (including emergency access), access drives and easements;
 - (5)Location of parking areas;
 - Location of floodplain, well, septic fields, and restroom facilities; (6)
 - (7)Location of landscaping and screening for outdoor tasting room and event areas within 300' of a residence not located on the property;
 - (8) Location, height, and type of proposed lighting; and
 - (9) Location of vegetation, fences, streams, directional signs, or other similar feature that may limit access onto or direct access away from an adjacent residential property line within 300' of tasting room and event areas.

1								
1 2 3		(B)	by a li	icensed p	In need not be drawn to scale, nor does it have to be prepared rofessional. However, distances from structures to adjacent be accurately depicted.			
4 5 6		(C)	proper	rty owne	eries that share a private access easement with another r/s, must show the easement allows a use of this type or sion must be obtained by the sharing parties.			
7 8	5-668			Beverage Manufacturing. Craft Beverages Manufacturing shall comply following standards:				
9		(A)	Inten	sity/Cha	racter.			
10			(1)	Tasting	g Rooms and Accessory Food Sales.			
11 12 13					Facilities for tasting rooms and accessory food service shall not exceed the lesser of (i) 49 percent of the total gross floor area or (ii) 5,000 square feet.			
14 15 16					Outdoor tasting rooms or similar outdoor activities shall be set back at least 50 feet from all lot lines of adjacent agriculturally or residentially zoned properties.			
17 18 19					Facilities for accessory food sales related to craft beverage consumption for the convenience of tasting room patrons only shall be permitted.			
20 21			(2)		rant. A restaurant may be provided in accordance with the ving zoning district.			
22 23			(3)		e Areas. Outdoor equipment and storage of materials used ft beverage manufacturing shall not be permitted.			
24 25 26		(B)	rooms	s or simi	ting Standards. All exterior lighting for outdoor tasting lar outdoor activities shall comply with the standards of $A(1)$ and (2) (Exterior Lighting Standards).			
27 28		(C)	Wate sewer		ewer. The use shall be served by central water and central			
29								
30								

1 2	Section 5-900	[RESERVED] Access and Setbacks From Specific Roads and the W&OD Trail. Certain roads within Loudoun County because of their
2		function, location and capacity require that uses be set back a certain
4		minimum distance from them. All other provisions of this Ordinance
5		notwithstanding, all buildings and parking, except for agricultural structures
6		and structures located within Village Conservation Overlay Districts and
7		the Joint Land Management Area Districts, shall be set back as provided
8		below, or the setback provided in an approved corridor study whichever
9		setback is greater, from the existing or planned rights-of-way, whichever is
10		greater. Residences, accessory structures, and accessory uses built before
11 12		June 16, 1993 are exempt from this provision pursuant to Section 1-403(D). The following roads are subject to this provision:
12		
13		(A) Building and Parking Setbacks From Roads.
14		(1) Route 7.
15		(a) Fairfax County line, west to Broad Run.
16		(i) Building: 50 feet
17		(ii) Parking: 50 feet.
18		(b) Broad Run west to east corporate limit of Leesburg.
19		(i) Building: 200 feet.
20		(ii) Parking: 125 feet.
21 22		(c) Route 7 Bypass from the west corporate limit of Leesburg west to Clarke County.
23		(i) Building: 200 feet.
24		(ii) Parking: 100 feet.
25		(2) Route 267.
26		(a) Building: 150 feet.
27		(b) Parking: 100 feet.
28		(3) Route 50. Rt. 659 Relocated west to Fauquier County line.
29		(a) Building: 100 feet.
30		(b) Parking: 75 feet.
31		(4) Route 15.

1		(a) Building: 100 feet.
2		(b) Parking: 75 feet.
3	(5)	-Route 28.
4		(a) Building: 100 feet.
5		(b) Parking: 75 feet.
6	(6)	-Route 9.
7		(a) Building: 100 feet.
8		(b) Parking: 75 feet.
9	(7)	-Route 287.
10		(a) Building: 100 feet.
11		(b) Parking: 75 feet.
12	(8)	Route 606.
13		(a) Building: 100 feet.
14		(b) Parking: 75 feet.
15	(9)	Other Arterial Roads.
16		(a) Building: 100 feet.
17		(b) Parking: 75 feet.
18	(10)	Other Major Collector Roads.
19		(a) Building: 75 feet.
20		(b) Parking: 35 feet.
21	(11)	All other roads in Nonresidential Districts.
22 23		(a) Building: As specified in applicable district regulations.
24 25		(b) Parking: 25 feet unless otherwise specified in applicable district regulations.
26	(12)	All other roads in Residential Districts.
		Article 5 Changes

1 2			(a)	Building: regulations.	As s t	pecified	in	applicable	<u>district</u>
3 4			(b) —	Parking:	As sp	ecified	in	applicable	<u>district</u>
5 6		(13)-	- Ram the r	ps at grade sep oads listed abo	parate ve.	d intere l	hang	ges associa	ted with
7			(a) —	Building: 75	feet.				
8			(b)	Parking: 35 f	feet.				
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		(14) (15)	build reduce feet is setba modi or se these build existe recorr lots of unme Modi	ified Building ing setback from ed on shallow I in depth, measu ck, whichever i fied building set tback required cases, parking ing setbacks. ed on June 16, offigured to increa created since J odified Building ifications may b stency with ac	n a roa lots to a ured fo s more tback f by the g setba This p 1993, case th une 10 Setba Setba dune 10 dune 10	id in this allow a b prward f restricti rom the r underly teks sha rovision and no e degree 5, 1993 eks from ain Str ved to th	Sub puild rom ive. road /ing ll be app lot of i mus Roa ceets ceets	section 5- ing area of any rear In no case be less thar zoning dis cotermin lies to lote may be a ts shallowr it comply- ids. cape Con setbacks to	000(A) is in the to 85 buffer or shall the in the yard trict. In ous with is as they ltered or ness. All with the sistency. maintain
25			Exce	ption.	ajueent	propert			Special
26		(B) Build	ling Set	t <mark>back From W</mark> o	<mark>&OD</mark> '	<mark>Frail.</mark> 2:	5 Fee	et.	
27 28 29 30		arterial or m	ajor co ks, pla	major roads. N llector roads sl nned median b VDOT.	nall be	limited	to 1	ocations at	existing
31 32 33 34	5-1002	established a	long a	ey Buffer Esta ll waterways dr 00 year floodpla	aining	greater	than	640 acres	in areas
35 36				asured along the he Potomac Riv	-	of the g	grour	nd from the	e channel

1 2 3		(B)	groun	eet on each side of the creek measured along the slope of the d from the channel scar line of the Scenic River designated ns of Goose Creek and Catoctin Creek.
4 5 6		(C)	groun	eet on each side of the creek measured along the slope of the d from the channel scar line of each creek or stream where the shed is greater than 640 acres.
7		(D)	The al	bove setbacks may be reduced as follows:
8 9 10 11 12			(1)	A reduction of 100 feet shall be allowed for the retention of an existing forested area or the creation of a forested area, as approved by the <u>Area ForesterCounty Urban Forester</u> as part of a management plan between the ultimate setback line and the channel scar line; or
13	5-1204	Sig	n Requ	urements.
14	GENERAL NOTES			
15 16	1.			ultiplier is used for ground mounted signs, a landscaped base with a minimum depth must be maintained (see Figure 1).
17 18	All signs must be set back the minimum distance from the road right-of-way, as specified, unless a greater setback is required by the Code of Virginia.			
19 20 21 22	 The maximum height column does not apply when ground mounted bonuses are obtained. Use the maximum height column for Ground Mounted Background Structure. For the purpose of locating building mounted signs, no part of the sign shall extend above or beyond the perimeter of the wall to which it is attached. 			
23	4.	(Deleted per	ZOAM-20	016-0005).
24 25 26 27 28 29 30 31 32 33 34 35 36	5.	a. The b. Sign c. Sign d. Sign of this e. The Sunday f. The specific g. Build	location of s shall be s shall be s shall not Ordinance signs ma , If Mond signs mus cally prohil lers may n	y be installed after sundown Friday night and must be removed by sundown on ay is a legal holiday, the signs may remain until sundown Monday. t be made of a permanent material, signs made of paper or cardboard are hereby
37	6.	In selecting	the most	appropriate sign category, the more specific listing shall take precedence.
38	5-1303	Ca	nopy R	equirements.
39		(B)		evelopment requiring a plan of subdivision, but not a site
40			-	property not zoned A-3, A-10, AR-1, AR-2, i.e. single
41 42			-	y and duplex dwellings. When a plan of subdivision is ed under the Land Subdivision and Development Ordinance
42 43			-	ie property is not zoned A-3, A-10, AR-1, AR-2, a landscape
44				shall be included at Record Plat or construction drawings,

1	whiche	ever shall occur first, that provides for the planting or
2	replace	ement of trees on the site to the extent that, at maturity of
		(20) years, minimum tree canopies will be provided as
4	follows	S:
5	(1)	If the site has a tree canopy coverage of 20% or more, the
6		plan shall provide for the preservation, or planting and
7		replacement of trees on site so as to result in a tree canopy
8		of at least 20%, calculated at 20 years maturity.
9	(2)	If the site has a tree canopy coverage of less than twenty
10		(20%) prior to recordation of the subdivision, the plan shall
11		provide for the preservation or planting and replacement of
12		an equivalent percentage of tree canopy coverage as existed
13		prior to development, calculated at 20 years maturity.
14	(3)	Every platted lot shall have a minimum tree canopy coverage
15		of 2.5%, or 3,000 square feet, whichever is less, calculated
16		at 20 years maturity, exempting lots for which no permits for
17		new structures will be sought and the designated parent tract.
18		Such trees shall be counted toward the minimum tree canopy
19		requirements in (1) and (2) above.
20	(4)	Trees shall be planted at a density of one tree per 50 linear
21		feet along both sides of all areas dedicated for use for
22		vehicular access. Such trees shall have a minimum caliper
23		of 1" and a height at maturity of 15 feet or more. Such trees
24		shall be counted toward the minimum tree canopy
25		requirements in (1), (2) and (3) above.
26		

1	ARTICLE 8 - DEFINITIONS							
2 3 4	Ornamental Grass: Grasses that are grown for their aesthetic value and are generally low maintenance plants resilient to harsh conditions, but does not include turf grasses.							
5	Perennial: Ornamental herbaceous plants that persist for many growing seasons.							
6 7 8	Shrub: <u>An A deciduous or evergreen multi-trunked</u> , woody plant that usually attains a mature height of no more than ten (10) feet. <u>Preferred species are provided in the Facility Standards Manual</u> .							
9 10 11	Street Tree: Any <u>large deciduous</u> tree which grows in the street right-of-way or on private property abutting the street right-of-way.							
12 13 14 15	Tree: A single perennial woody stem attaining a height of fifteen (15) feet or more at maturity. The particular categories of trees listed below, when used in this Ordinance shall have the following meanings:							
16 17	Tree, Canopy: A deciduous tree, usually single trunked, with a definitely formed crown of foliage and which attains a mature height of at least 30 feet.							
18 19 20 21	Tree, Deciduous: Trees and shrubs that shed their leaves annually, usually in Autumn.							
21 22 23 24 25	Tree, Evergreen: A non-deciduous tree, often used for the purposes of screening, weather barrier, or accent planting. <u>Preferred species are provided in the Facilities Standards Manual.</u>							
25 26 27	Tree, Flowering: Trees that flower.							
28 29 30	Tree, Large Deciduous: A deciduous tree, usually single trunked, with a definitely formed crown of foliage and which attains a mature height of at least 30 feet. Preferred species are provided in the Facility Standards Manual.							
31 32 33 34	Tree, Small Deciduous: A deciduous tree which attains a mature height of no greater than 30 feet. P referred species are provided in the Facilities Standards Manual.							
35 36 37	Tree Canopy or Tree Cover: Shall include all areas of coverage by plant material exceeding five (5) feet in height.							
38 39	Tree, Understory: A deciduous or evergreen tree which attains a mature height of no greater than 30 feet. Understory trees often prefer shade and grow naturally under the canopy of larger trees.							

FSM Chapter 7 Amendments – 11/21/19 Board of Supervisors Draft

7.300 TREE CONSERVATION

- A. The County recommends that the following be considered priorities for tree conservation:
 - 1. Trees, shrubs, and plants located within the Floodplain Overlay District;
 - 2. Intermittent and perennial stream buffers, non-tidal wetlands, and steep slope areas;
 - 3. Contiguous forest that connects the largest undeveloped or most vegetated tracts of land within and adjacent to the site;
 - 4. Trees, shrubs, or plants determined to be rare, threatened, or endangered under the federal Endangered Species Act and those species identified by the Virginia Department of Game and Inland Fisheries;
 - 5. Trees that are identified as part of a registered historic site;
 - 6. Hedgerows/Fencerows; and
 - 7. Invigorated, healthy, structurally sound trees having a diameter measured at four and a half (4.5) feet above the ground of thirty (30) inches or more.
- B. Conservation of Existing Trees and Vegetation to Meet Canopy and Buffer Requirements:
 - 1. Existing tree canopy and vegetation, including those areas of tree canopy and vegetation that an Applicant has agreed to preserve or conserve as part of a proffer or condition of approval, may be used to meet canopy and/or buffering and screening requirements of the <u>Zoning Ordinance</u>, if the following requirements are met:
 - a. The following shall not be used to meet canopy or buffering and screening requirements:

i. Concentrated stands of Virginia Pine.

- i-ii. Concentrated stands of invasive plant species as identified on the Virginia Department of Conservation and Recreation, Virginia Invasive Plant Species List.
- ii.<u>iii.</u> Existing tree canopy and vegetation located within the PRZ, as defined in Section 7.303.

Attachment 2

- iii.iv. Existing tree canopy and vegetation, located on residential lots of twenty thousand (20,000) square feet or less.
- b. Existing tree canopy shall meet the standards of desirability and lifeyear expectancy established by the Zoning Administrator. Existing vegetation shall be suitable to provide buffering and screening in accordance with the requirements of the <u>Zoning Ordinance</u>. To demonstrate that these requirements are met, a field inspection of the existing tree canopy and vegetation proposed to be used to meet the canopy and/or buffering and screening requirements of the <u>Zoning Ordinance</u> shall be conducted, and a narrative prepared, by a Certified Arborist, Urban Forester, or Landscape Architect. The date of the inspection and the name of the individual who conducted the inspection shall be identified in the narrative.

The narrative may be accompanied by photographs. The narrative shall describe the overall size, species and general conditions of the area where such existing trees and vegetation are located. General conditions include factors such as dominant species, growth rate, stocking/basal area, structure, form and quality characteristics, regeneration, age range, soils, aspect, stand history, invasive species, and hazard trees. The narrative shall also inventory by field location, common name, scientific name and International Society of Arboriculture (ISA) condition rating of all trees within the area of trees and vegetation to be preserved or conserved located within fifty (50) feet of the limits of clearing and grading that have a diameter breast height (d.b.h.) of thirty (30) inches or more.

- C. Conservation of Existing Trees and Vegetation for Use as Best Management Practices (BMP):
 - 1. A field inspection shall be conducted, and a narrative prepared, by a Certified Arborist, Urban Forester, or Landscape Architect. The date of the inspection and the name of the individual who conducted the inspection shall be identified in the narrative.
 - 2. The narrative may be accompanied by photographs and shall describe the overall size, species and general condition of the conserved area where the existing trees and vegetation are located to demonstrate compliance with the BMP requirements of Chapter 5 of this Manual. General conditions include factors such as dominant species, growth rate, stocking/basal area, structure, form and quality characteristics, regeneration, age range, soils, aspect, stand history, invasive species, and hazard trees.
 - 3. Existing tree canopy and vegetation used as BMPs in accordance with Chapter 5 of this Manual shall be located within an easement dedicated to the County of Loudoun.

7.301 LANDSCAPE PLANTINGS

The County recommends that tree and shrub plantings be native and have multiple values such as biomass, nuts, fruits, browse, nesting, and aesthetics. Table 3 (Trees and Shrubs) provides a list of the species that may be used to meet the requirements of Sections 7.302 and 7.305. The Director or Director's Designee may approve the use of additional species not listed in Table 3 if such species demonstrate the values listed above. The Director or Director's Designee shall establish the minimum planting area (square feet) and canopy coverage provided (square feet), if applicable, for any approved additional species.

7.302 TREE CONSERVATION AND LANDSCAPE PLANS

When new plantings or existing tree canopy and vegetation are used to satisfy the requirements of the <u>Zoning Ordinance</u>, this Manual, a proffer, or a condition of approval of a special exception or variance, an applicant shall submit a Tree Conservation and Landscape Plan.

- A. The Tree Conservation and Landscape Plan shall be overlain upon the site plan or construction plans and profiles, whichever is applicable, to illustrate the following:
 - 1. Accurate location and species of each planting.
 - 2. No plantings are proposed that would be detrimental to the purpose of sight distance easements or other easements.
 - 3. Required landscape buffers.
 - 4. Areas of existing tree canopy and vegetation to be preserved or conserved.
 - 5. All tree protection measures required by Section 7.303 of this Chapter.
 - 6. Tree canopy calculations.
 - 7. Landscape planting schedule.
 - 8. Any narrative required by Section 7.300 of this Chapter.
 - References to the appropriate guidelines for planting and maintenance of new plant material provided by the <u>Virginia Erosion and Sediment Control</u> <u>Handbook</u>. Landscape Contractors Association's; Landscape Specifications Guidelines for Baltimore - Washington Metropolitan Area.
 - a. Above-ground landscape containers and planters for trees shall be designed in accordance with Virginia Cooperation Extension publication 430-023, Trees for Landscape Containers and Planters.

b. All planting areas shall contain soils suitable for planting. Soils shall be free of construction materials. Excessive rock and gravel or compaction shall be addressed prior to installation of landscape material.

- B. For new plantings used to meet canopy, landscaping and/or buffering and screening requirements, a Landscape Table shall be provided as follows below. For tree plantings, canopy coverage provided shall be in accordance with Table 3, or as established by the Director or Director's designee for additional species. To achieve diversity:
 - 1. If <u>340</u> or more trees of a planting category are required to be planted, then no more than one-<u>fourththird</u> of any category of trees (<u>large deciduous</u> <u>treecanopy</u>, <u>small deciduous treeunderstory</u>, and evergreen) shall be composed of one species.; and

2. Evergreen tree species used to meet evergreen tree planting requirements shall not be used to meet understory tree planting requirements.

KEY	SCIENTIFIC NAME	COMMON NAME	SIZE (CALIPER or HEIGHT)	TYPE OF ROOT STOCK TO BE PLANTED *1	QUANTITY	YEAR CANOPY COVERAGE PROVIDED PER TREE	TOTAL CANOPY COVERAGE PROVIDED	
]	Large Deciduo	ousCanopy Tre	ees			
Ar	Acer rubrum	Red Maple	2" caliper	B&B	15	270	4,050	
Ls	Liquidambar styraciflua	Sweetgum	2" caliper	B&B	18<u>15</u>	270	4 <u>,8604,050</u>	
Qp	Quercus palustris	Pin Oak	2" caliper	B&B	<u>4415</u>	270	3,780<u>4</u>.050	
Zs	Zelkova serrata	Japanese Zelkova	2" caliper	B&B	20<u>15</u>	270	5,400<u>4,050</u>	
Total					67<u>60</u>		18,090<u>16,200</u>	
	Small DeciduousUnderstory Trees							

"SAMPLE" LANDSCAPE TABLE

KEY	SCIENTIFIC NAME	COMMON NAME	SIZE (CALIPER or HEIGHT)	TYPE OF ROOT STOCK TO BE PLANTED *1	QUANTITY	YEAR CANOPY COVERAGE PROVIDED PER TREE	TOTAL CANOPY COVERAGE PROVIDED
Cf	Cornus florida	Flowering Dogwood	1" caliper	B&B	<u>2218</u>	115	2,530<u>2,070</u>
Cc	Cercis canadensis	Redbud	1" caliper	B&B	18	115	2,070
Aa	Amelanchier arborea	Downy Serviceberry	1" caliper	B&B	15<u>18</u>	115	1,725<u>2,070</u>
Li	Lagerstroemia idica	Common Crapemyrtle	1" caliper	B&B	20<u>18</u>	115	2,300<u>2,070</u>
Total					75<u>72</u>		8,625 8,280
			Evergr	een Trees			
Pa	Picea abies	Norway Spruce	6'	CON	20	190	3,800
Ps	Pinus strobus	Eastern White Pine	6'	CON	20	190	3,800
Io	Ilex opaca	American Holly	6'	CON	20	115	2,300
Mg	<u>Magnolia</u> grandiflora	<u>Southern</u> <u>Magnolia</u>	<u>6'</u>	CON	<u>20</u>	<u>190</u>	<u>3,800</u>
Total					<u>6080</u>		9,900<u>13,700</u>
Total Canopy					202 212		36,615<u>38,180</u>
			Sh	nrubs			
Ra	Rhododendron atlantica	Dwarf Azalea	3 gallon	CON	20	0	0
As	Alnus serrulata	Common Alder	3 gallon	CON	10	0	
Со	Cephalanthus occidentalus	Buttonbush	3 gallon	CON	18	0	0
Ca	Cornus amomum	Silky Dogwood	3 gallon	CON	15	0	0
Total					63		
	Note: Sul	bstitute plantings m	hay be permitt	ed in accordar	ce with Chapter	7 of the FSM.	

Footnotes:

- *1 Type of Root Stock to be planted shall be specified as follows:
 - balled and burlapped = B&B
 - bare root = BR
 - container = CON
- C. The use of deciduous trees, evergreen trees, shrubs, ornamental grasses and perennials, or a combination of these plant types only, shall be used to achieve the required buffer planting units. Buffer tables shall be provided as follows below.

Adjacent Road	Name and Type	"Road Name" (Major Collector)			
Road Corridor Requ		<u>Type 2</u>			
Plant Units Per	100 Linear Feet	<u>60</u>			
Total Lir	near Feet	<u>300</u>			
Total Require	ed Plant Units		<u>180</u>		
<u>Plant Types</u>	<u>Quantity</u>	<u>Plant Unit</u> Equivalents	<u>Plant</u> <u>Units</u>	<u>Percentage</u>	
Large Deciduous	<u>6</u>	<u>10 Plant Units =</u> <u>1 Plant</u>	<u>60</u>	<u>33%</u>	
Evergreen	<u>0</u>	<u>6 Plant Units =</u> <u>1 Plant</u>	<u>0</u>	<u>0%</u>	
<u>Small</u> Deciduous	<u>12</u>	<u>5 Plant Units =</u> <u>1 Plant</u>	<u>60</u>	<u>33%</u>	
<u>Shrubs</u>	<u>25</u>	<u>2 Plant Units =</u> <u>1 Plant</u>	<u>50</u>	<u>28%</u>	
Ornamental Grasses	<u>0</u>	<u>1 Plant Unit =</u> <u>1 Plant</u>	<u>0</u>	<u>0%</u>	
Perennials	<u>40</u>	$\frac{0.25 \text{ Plant Unit} =}{1 \text{ Plant}}$	<u>10</u>	<u>6%</u>	
<u>Total</u>	<u>N/A</u>	<u>N/A</u>	<u>180</u>	<u>N/A</u>	

"SAMPLE" ROAD CORRIDOR BUFFER TABLE

"SAMPLE" BUFFER YARD TABLE

Proposed	Land Use	Group 10				
		<u></u>				
Adjacent	Land Use	<u>Group 2</u>				
Use Buffer T	ype Required		<u>Type B</u>			
Plant Units Per	100 Linear Feet	<u>80</u>				
<u>Total Lir</u>	near Feet	<u>350</u>				
Total Require	ed Plant Units		<u>280</u>			
Plant Types	<u>Quantity</u>	<u>Plant Unit</u> Equivalents	<u>Plant</u> <u>Units</u>	<u>Percentage</u>		
Large Deciduous	<u>8</u>	<u>10 Plant Units =</u> <u>1 Plant</u>	<u>80</u>	<u>29%</u>		
Evergreen	<u>5</u>	<u>6 Plant Units =</u> <u>1 Plant</u>	<u>30</u>	<u>11%</u>		
<u>Small</u> Deciduous	<u>10</u>	<u>5 Plant Units =</u> <u>1 Plant</u>	<u>50</u>	<u>18%</u>		
<u>Shrubs</u>	<u>40</u>	<u>2 Plant Units =</u> <u>1 Plant</u>	<u>80</u>	<u>29%</u>		
Ornamental Grasses	<u>20</u>	<u>1 Plant Unit =</u> <u>1 Plant</u>	<u>20</u>	<u>7%</u>		
Perennials	<u>80</u>	$\frac{0.25 \text{ Plant Unit} =}{1 \text{ Plant}}$	<u>20</u>	<u>7%</u>		
<u>Total</u>	<u>N/A</u>	<u>N/A</u>	<u>280</u>	<u>N/A</u>		

C.D. For existing trees, canopy coverage provided shall be determined as follows:

- 1. For groups of trees, the area of canopy coverage provided shall only include canopy that meet the requirements of Section 7.300.
- 2. For individual trees, canopy coverage provided shall be equal to the area of the CRZ, as defined in Section 7.303.

	Acreage	sq. ft.				
Gross Site Area	200	8,712,000				
Less Exclusion Areas per Zoning Ordinance	5	217,800				
Net Site Area	195	8,494,200				
Canopy Coverage Required (10%)	19.5	849,420				
Canopy Coverage Provided	21	914,760				
Existing Canopy	12	522,720				
Proposed Canopy on Lots - (excluding Street Trees)	1	43,560				
Proposed Canopy – Open Space	5	217,800				
Proposed Canopy – Street Trees	2	87,120				
Proposed Canopy – Buffers	1	43,560				
Reforestation	0	0				
Total Canopy Coverage Provided	21	914,760				
Requirement is met <u>914,760</u> sq. ft. is greater than 849,420 sq. ft.						

"SAMPLE" CANOPY COVERAGE CALCULATIONS

E.F. At the time of planting, the applicant may submit a written request to the Director or Director's designee to approve the substitution of a species shown on the approved Landscape Plan with a species from the same planting category in Table 3.

7.303 TREE PROTECTION

Tree protection measures during land disturbing activities shall be in accordance with the <u>Virginia Erosion and Sediment Control Handbook</u>. Additionally, the following shall apply:

A. Areas of existing tree canopy and vegetation that an applicant has agreed to conserve or preserve as part of a proffer or condition of approval or to meet canopy and/or buffering and screening requirements shall be protected during construction.

B. Critical Root Zone/Protected Root Zone

When areas of existing tree canopy and vegetation that an Applicant has agreed to preserve or conserve as part of a proffer or condition of approval or to meet canopy and landscape buffer requirements are identified on a site plan or construction plans and profiles, the corresponding critical root zone (CRZ) or protected root zone (PRZ), as applicable, shall be delineated on the site plan and construction plans and profiles, as well as any grading plan prepared in association with and/or any grading permit application accompanying said site plan or construction plans and profiles.

- 1. For individual trees, the CRZ shall be represented by a concentric circle centered on the tree trunk with a radius equal in feet to one (1) times the number of inches of the trunk diameter (i.e., The CRZ for a twenty (20) inch diameter tree is twenty (20) feet), as shown in Figure 1.
- 2. For groups of trees, the PRZ shall be represented by a line drawn within the area of tree canopy and vegetation to be preserved or conserved that is parallel to and 15 feet from the limits of clearing and grading, as shown in Figure 1.

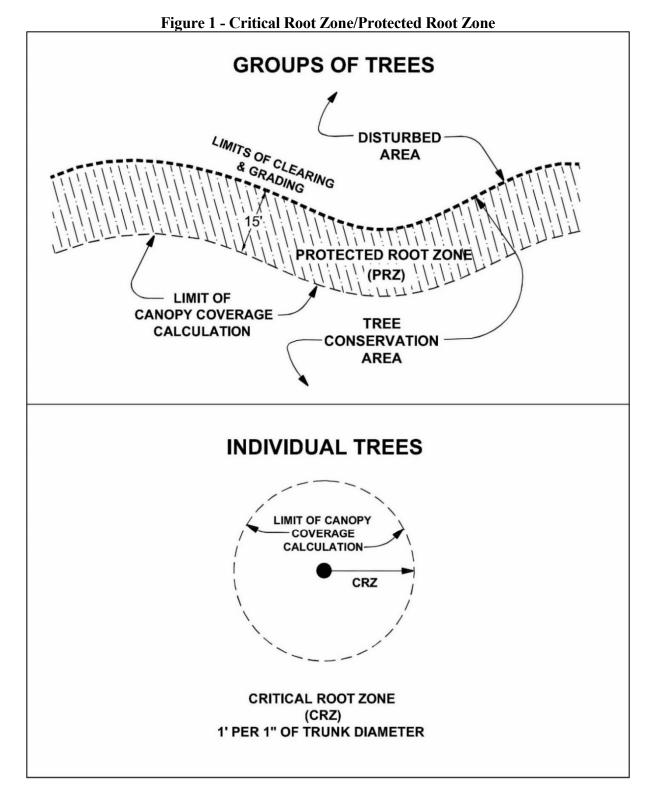


FIGURE 1 Section 7.303 (NOT TO SCALE)

C. General Requirements

- 1. Prior to any land disturbance, protective barriers, such as Super Silt Fence as shown in Figure 3, or welded wire fence as shown in Figure 6, shall be <u>installederected</u> along the CRZ of any tree, or along the limits of clearing and grading of any group of trees, as applicable, to be preserved. Protective barriers shall remain so <u>installederected</u> throughout all phases of construction. No grade changes or storage of equipment, materials, debris, or fill shall be allowed within the area protected by the barrier. No construction traffic, parking of vehicles, or disposal of liquids is permitted within the CRZ and PRZ. All protective barriers are recommended to display tree protection signage, as shown in Figure 2, installed at a minimum of one sign every fifty (50) feet.
- 2. Tree roots which must be severed shall be cut by a trencher or similar equipment aligned radially to the tree. This method reduces the lateral movement of the roots during excavation, which if done by other methods could damage the intertwined roots of adjacent trees. This effort shall take place and be complete prior to any land disturbance activities.
- 3. Within four hours of any severance of roots, all tree roots that have been exposed and/or damaged shall be trimmed cleanly and covered temporarily with moist peat moss, moist burlap, or other moist biodegradable material to keep them from drying out until permanent cover can be installed.
- 4. Prior to completion of Phase 1 erosion and sediment control construction activity, hazard trees shall be identified by an Urban Forester, Certified Arborist, or Landscape Architect, marked with paint, saw cut, and removed. Trees that become hazard trees following Phase 1 erosion and sediment control construction activity shall also be marked with paint, saw cut, and removed prior to bond release. Tree stumps located within areas of existing canopy and vegetation to be preserved or conserved on open space parcels shall be left intact.
- 5. Slopes abutting a CRZ or PRZ shall not have a grade greater steeper than 2:1 for a distance of five (5) feet outside the CRZ or PRZ, or a retaining wall shall be required. Any wall constructed within five (5) feet of the CRZ or PRZ shall be reviewed and approved by the County Urban Forester or Director's designee. Grade changes and excavations shall not encroach within the CRZ or PRZ, unless approved by the County Urban Forester or Director's designee.
- 6. No toxic materials, including petroleum products, shall be stored within 100 feet of the CRZ or PRZ.
- 7. Sediment, retention, and detention basins shall not be located within the CRZ or PRZ. Such basins shall not discharge directly into the CRZ or PRZ

unless the discharge is transitioned back to sheet flow prior to entering the CRZ or PRZ or is discharged into an adequate natural channel, in accordance with Chapter 5 of this manual.

D. Pruning Methods

All final cuts shall be made sufficiently close to the trunk or parent limb but without cutting into the branch collar or leaving a protruding stub, according to the <u>American National Standards Institute (A300 Part 1)</u> American National <u>Standards Institute (A300 (Part 1) – Pruning</u>). All necessary pruning cuts must be made to prevent bark from being torn from the tree and to facilitate rapid healing. Flush cuts are unacceptable.

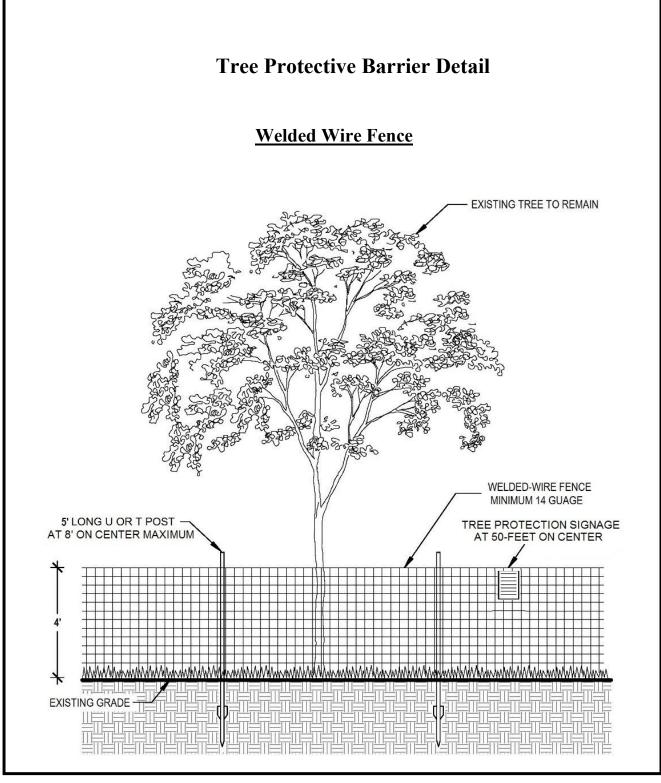


FIGURE 6 Section 7.303

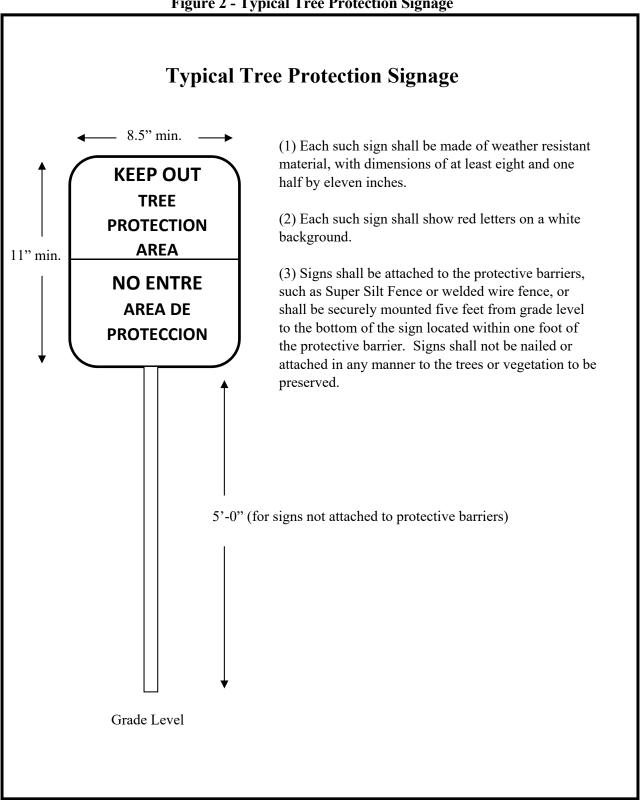


FIGURE 2 Section 7.303

7.304 FOREST MANAGEMENT PLAN

Prior to timber harvesting or silvicultural activities, a Forest Management Plan (FMP), when required by the <u>Zoning Ordinance</u> for the Floodplain Overlay District, Mountainside Development Overlay District, Limestone Overlay District, and Steep Slope Standards, shall be required and submitted to the Director or Director's designee for approval. The approved FMP is required to be on file with the Director or Director's designee and a copy kept on site throughout the duration of the timber harvest or silvicultural activity, including site stabilization, where applicable.

- A. A meeting with the Director or Director's designee is recommended to discuss the scope of the proposed timber harvest or silvicultural activities prior to the preparation and submission of the FMP.
- B. The purpose of the FMP is to establish the tract location and to describe the Best Management Practices (BMP's) required for structural stabilization and revegetation of all exposed mineral soil sites. The FMP shall be prepared by the Virginia Department of Forestry, or a professional forester with, at a minimum, a Bachelor of Science degree from and accredited School of Forestry, and shall contain the following information:
 - 1. <u>Sheet size of 11 inches x 17 inches with a scale large enough to clearly</u> <u>depict County base map at 1" – 200', showing tract boundaries, timber type</u> lines, water bodies, topography and acreage to be harvested. These maps are available through the Loudoun County Office of Mapping and Geographic Information.
 - 2. Identify all streams, their headwaters and a Streamside Management Zone (SMZ) at least fifty (50) feet wide on either side of the stream.
 - 3. Approximate location of all decks, haul roads, primary skid trails, and any other road, trail, or travelway that will be used for the timber harvest or silvicultural activity.
 - 4. If grading, including excavation or filling, is necessary for deck or haul road construction, or construction of any other road, trail, or travelway that will be used for the timber harvest or silvicultural activity, a detailed map showing location, topography and information addressing stabilization.
 - 5. Identify species composition, stocking, regeneration, soils, stand history, unique natural features, percent slope, quality and growth rate, and approximate stems per acre to be harvested.
 - 6. Harvest type (i.e., selective, shelterwood, diameter limit cut, clear-cut, etc.)
 - 7. Means of regeneration (natural or artificial).

- 8. Means of post-harvest closure and stabilization, as applicable.
- 9. Recommendations regarding the viability of a fuel wood harvest.
- 10. Statement that all BMP's shall be in accordance with the Virginia Department of Forestry Best Management Practices for Water Quality and all post-harvest BMP's shall be implemented immediately upon logging completion.
- 11. Plan shall be signed by the drafting professional forester.
- C. The following notification shall be provided:
 - 1. Notification pursuant to Section 10.1-1181.2 (H) of the Code of Virginia ["Notification of Commercial Harvesting of Timber" (800/939-LOGS)].
 - 2. A call to the County Urban Forester or Director's designee at least twentyfour (24) hours prior to commencement of the logging operation.
 - 3. A call to the County Urban Forester or Director's designee immediately upon installation of all BMP's.

7.305 REFORESTATION STANDARDS

Any required reforestation used to satisfy the <u>Zoning Ordinance</u>, a proffer, or a condition of approval of a special exception or variance shall comply with the following standards. These standards may serve as guidance for other voluntary planting efforts.

A planting plan prepared by an Urban Forester, Certified Arborist, or Landscape Architect shall be required and shall be reviewed and approved by the County Urban Forester or Director's Designee. The planting plan shall specifically address plant materials, plant density/stocking requirements, site preparation, site stabilization, release/maintenance, livestock exclusion, wildlife damage, maintenance, and restocking requirements (post-establishment) in accordance with the Natural Resources Conservation Service free and Shrub Establishment Guidelines and the Virginia Department of Forestry Hardwood Management: Planting Guidelines. Tree planting shall be native and have multiple use benefits that improve or enhance wildlife, recreation, and overall aesthetic values and shall consist primarily of pioneer (early succession) tree species. Any proposed streambank stabilization and control of invasive plant species also should be addressed by the planting plan.

A. Plant Materials

A general description of the existing trees and vegetation on the site shall be provided. Table 3 identifies certain trees and shrubs that are native and have multiple use benefits that improve or enhance wildlife, recreation, and overall aesthetic values, that shall be used for reforestation. To achieve diversity, large

<u>deciduouscanopy</u> tree plantings shall consist of a mixture of five (5) or more species from Table 3 and <u>small deciduous and evergreen understory</u> tree plantings shall consist of a mixture of three (3) or more species from Table 3. The County Urban Forester or Director's Designee may approve the use of additional tree species where appropriate.

- 1. Plantings shall be installed as soon as possible after delivery from the nursery. If plantings cannot be installed within 48 hours of delivery from the nursery, such plantings shall be kept cool and moist or heeled in. Plantings shall be high quality stock with good root systems. Quality hardwood seedlings should have a minimum of four to five large lateral roots.
- 2.-1. Plantings should be installed in early Spring (March-April) or Fall (October-November). A tree planting machine, auger, planting bar, or shovel can be used to plant seedlings. Root collars of seedlings shall be slightly below the soil surface. Planting holes shall be closed, plant material shall not be J-rooted, and the soil around the root or cutting shall be firm.
- B. Planting Density/Stocking Requirements
 - 1. Plantings shall be installed with a staggered and uniform spacing. Understory trees shall be inter-planted among canopy trees. A canopy tree shall be defined as any tree thirty (30) feet tall or greater at maturity, while an understory tree shall be defined as any tree less than thirty (30) feet tall at maturity.
 - 2.1. Plantings shall be installed in accordance with <u>one of the plant densityies</u> options and shall include all plant size categories listed in Table 2. <u>The</u> County Urban Forester or Director's designee may allow the use of existing native vegetation to meet the plants per acre requirement.

Plant Size-Categories	Plants per Acre	Staggered -Plant Spacing (ft)
Option 1: Seedlings		<u>10' x 10'14' x 14'</u>
/ Tublings (<u>Large Deciduous Trees</u> Canopy Species)	<u>350200</u>	<u>Tree plantings shall</u> <u>be evenly distributed</u> with evergreens
Small Deciduous Trees and/or	<u>85</u>	and/or small deciduous trees
Evergreen Trees		interspersed between the large deciduous trees.
Option 2: Container (3-gallon or larger) or Balled and Burlapped		<u>12' x 12'</u>
Large Deciduous Trees	<u>240</u>	<u>Tree plantings shall</u> <u>be evenly distributed</u> with evergreens
Small Deciduous Trees and/or	<u>60</u>	and/or small deciduous trees
<u>Evergreen Trees</u>		interspersed between the large deciduous trees.
Seedling/Tublings (Shrubs)	165	16' x 16'
3-gallon Understory Trees	120	12' x 12'
3-gallon Canopy Trees	180	

Table 2 - Required Plant Densities for Reforestation

- Up to five thousand (5,000) square feet or twenty-five percent (25%) of the reforestation area, whichever is less, may be planted with a mixture of three (3) or more species of shrubs from Table 3 in lieu of required canopy trees and understory trees listed in Table 2 to provide for sight lines and vistas.
- 5. The County Urban Forester or Director's designee may allow:
 - a. The use of existing vegetation a minimum of four (4) feet in height to achieve the required 3-gallon plant densities specified in Table 2 based on species and quality.

b. The use of existing vegetation under four (4) feet in height may be used to achieve the required seedling/tubling densities specified in Table 2 based on species and quality.

C. Site Preparation

Planting plans shall include a section addressing site preparation. Sites shall be properly prepared based on the soil type, existing trees and vegetation, and proposed plantings. Such site preparation may require a combination of site preparation techniques. In most situations a combination of mechanical and herbicidal techniques will be most effective and efficient.

- 1. If herbicides are to be used for site preparation, the specific herbicides shall be identified in the planting plan and shall be used only when and where needed to control competition. Only herbicides that are rendered inactive upon contact with the soil shall be used within riparian buffers. Herbicides shall be handled and disposed of in accordance with federal, state and local regulations.
- 2. If the area has been used for row crops, the ground shall be disced in the Spring and seeded with a cover crop, such as annual rye grass or cereal rye, that is not invasive, does not require mowing, and will be shaded out (eventually eliminated) by the woody plants.
- 3. In pasture-type situations, competing perennial vegetation shall be eliminated mechanically or with herbicides in circles three (3) to four (4) feet in diameter or in two (2) to three (3) foot wide linear strips where trees will be planted. Invasive species, such as multiflora rose and honeysuckle, shall be controlled by cutting, pulling, and/or herbicides.
- 4. When existing vegetation is used, site preparation shall focus on eliminating competition. Techniques for eliminating competition include, without limitation, spraying basal bark herbicides during the dormant season, cutting trees, shrubs and vines and then treating the stumps to prevent resprouting, and mowing competing vegetation after leaf-out in the Spring.

D. Site Stabilization

In addition to the required plantings, sites may be initially stabilized with nonnative grasses; however, ultimate site stabilization shall be achieved only with native vegetation following site preparation. Seeding mixtures shall be specified in the planting plan.

Riparian buffers may be initially stabilized using non-native grasses; however, ultimate site stabilization shall be achieved using only native herbaceous plants and only native shrub and tree seed mixtures. The seed mixtures shall not include any

invasive/exotic plant species and shall be designed to create a diverse plant population for wildlife and formulated to meet specific site conditions.

E. Livestock Exclusion

Cattle, horses or other livestock shall be fenced from any riparian planting.

F. Wildlife Damage

Measures to prevent or reduce damage to the reforestation from deer browse, buck rub, or beaver activity shall be identified and may include, without limitation, the following:

- 1. Plant selection. Use plants that are considered less palatable to beaver or deer.
- 2. Planting Tubes. Protect young seedlings with planting tubes. However, tubes shall not be used in areas subject to frequent flooding. Protect all seedlings with four (4)-foot high protective, biodegradable tree shelters.
- 3. Buck Rub Protection. Protect each <u>3-gallon or larger planting container or</u> <u>balled and burlapped tree</u> with a wire cage one (1) foot in diameter and a minimum of forty-eight (48) inches tall secured with a two-inch by twoinch (2" x 2") oak stake.

4. Deer Repellents. Apply taste and odor repellents to deter deer browse.

G.C. Release/Maintenance

Newly installed plant material shall be periodically maintained to ensure release for up to three (3) two (2) years after planting. In most situations a combination of the below listed mechanical and herbicidal techniques will be most effective and efficient:

1. Two (2) to four (4) inches of organic mulch or mats.

2. Herbicide applications.

3. Shallow cultivation.

4. Controlled grazing in non-riparian areas.

5. Mowing and other types of mechanical techniques.

H.D. Restocking Requirements (Post-Establishment)

If a targeted stocking of seventy-five percent (75%) survival with uniform distribution is not achieved within <u>one (1) year two (2) years</u> of planting as determined by the County Urban Forester or Director's designee, the Applicant shall provide a one-time supplemental planting to achieve the full, initial stocking.

Table 3 - Trees and Shrubs

	Planting Ca	tegory	- <u>-</u> Ca	nopyLar	·ge	Deci	duou	<u>S</u>				
The Uses column	identifies certain speci								ots	and ur	ndernea	.th
	s. Gateway Corridor											
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor		C Pe	Canop Coveraş (sq. ft.) r Calij 10 Yea	ge) per		C Pe	y ge) per r	
				Uses		1.0"	2.0"	3.0"		1.0"	2.0"	3.0"
	I											L
<i>Acer rubrum</i> 'Columnare'	Columnar Red Maple	55		PL		45	55	75		70	75	90
<i>Carpinus betulus</i> 'Fastigiata'	Fastigiate European Hornbeam	55				45	55	75		70	75	90
<i>Fagus sylvatica</i> 'Fastigiata'	Fastigiate European Beech	55		<u>GC</u>		45	55	75		70	75	90
<i>Gingko biloba</i> 'Princeton Sentry'	Princeton Sentry Gingko	55				45	55	75		70	75	90
<i>Quercus robur</i> 'Fastigiata'	Fastigiate English Oak	55		PL		45	55	75		70	75	90
Aesculus flava	Yellow Buckeye	90	Ν	<u>GC</u>		130	150	175		195	205	210
Aesculua glabra	Ohio Buckeye	90				130	150	175		195	205	210
Aesculus hippocastanum	Common Horsechestnut	90		<u>GC</u>		130	150	175		195	205	210
Betula alleghaniensis	Yellow Birch	90	N			130	150	175		195	205	210
Betula lenta	Black Birch	90	Ν	RF GC		130	150	175		195	205	210
Betula nigra	River Birch	90	N	RF <u>GC</u>		130	150	175		195	205	210
Castanea mollissima	Chinese Chestnut	90				130	150	175		195	205	210
Celtis occidentalis	Common Hackberry	90	N	RF GC		130	150	175		195	205	210
Cercidiphyllum japonicum	Katsuratree	90		PL		130	150	175		195	205	210
Cladrastis lutea	Yellowwood	90	Ν	PL		130	150	175		195	205	210
Diospyros virginiana	Common Persimmon	90	N	RFGC		130	150	175		195	205	210

	Planting Ca	tegory	<u>– Ca</u>	nopyLarg	ge De	ciduou	<u>IS</u>				
	identifies certain speci										
overhead Utility Line	es. Gateway Corridor	Buffer Ya	ards shal	<u>l be planted</u>	with sp	ecies spe	ecified	for (Gatewa	ay Corr	ridor.
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor		Canop Covera (sq. ft. Per Calij 10 Yea	ge) per		C Pe	Canop overag (sq. ft.) r Calij 20 Yea	ge) per
				Uses	1.0	2.0"	3.0"		1.0"	2.0"	3.0"
	1							_			
Eucommia ulmoides	Hardy Rubber Tree	90		PL	130	150	175		195	205	210
Fagus sylvatica	European Beech	90			130	150	175		195	205	210
Gleditsia triacanthos var. inermis (Identify Specific 'Cultivar')	Thornless Common Honeylocust	90	N	PL <u>, GC</u>	130	150	175		195	205	210
Gymnocladus dioicus	Kentucky Coffeetree	90		PL	130	150	175		195	205	210
Juglans cinerea	Butternut	90	Ν		130	150	175		195	205	210
Maclura pomifera	Osage-Orange	90	N		130	150	175		195	205	210
Magnolia acuminata	Cucumbertree Magnolia	90	N		130	150	175		195	205	210
Magnolia macrophylla	Bigleaf Magnolia	90	N		130	150	175		195	205	210
Metasequoia glyptostroboides	Dawn Redwood	90	_		130	150	175		195	205	210
Nyssa aquatica	Water Tupelo	90	Ν		130	150	175		195	205	210
Nyssa sylvatica	Black Gum	90	N	PL, RF<u>GC</u>	130	150	175		195	205	210
Ostrya virginiana	Eastern Hophornbeam	90	N	RF GC	130	150	175		195	205	210
Pistacia chinensis	Chinese Pistache	90		PL	130	150	175		195	205	210
Prunus pensylvanica	Pin Cherry	90	N		130	150	175		195	205	210
Prunus sargentii	Sargent Cherry	90			130	150	175		195	205	210
Prunus serotina	Wild Black Cherry	90	N	RF <u>GC</u>	130	150	175		195	205	210
<i>Prunus serrulata</i> 'Kwanzan'	'Kwanzan' Japanese Flowering Cherry	90			130	150	175		195	205	210
Prunus subhirtella var. pendula	Weeping Higan Cherry	90			130	150	175		195	205	210

	Planting Ca	itegory	_	- Ca	nopyLar	ge	Deci	duou	<u>s</u>				
	identifies certain speci	les that m	ay	be be	tter suited f	or	plantin	g in Pa	- rking L				
	s. Gateway Corridor		arc		# orridor	<u>.</u> W:		Canopy Coverag (sq. ft.)	y ge)	<u>or</u>	C	Canop Coveras (sq. ft.)	y ge)
Botanical Name	Common Name	Minimum Planting Area in sq. ft.		N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Cor			r Calip 10 Yea				r Calij 20 Yea	
					Uses		1.0"	2.0"	3.0"		1.0"	2.0"	3.0"
Prunus x yedoensis	Yoshino Cherry	90					130	150	175		195	205	210
Quercus hemisphaerica	Laurel Oak	90		N			130	150	175		195	205	210
Quercus ilicifolia	Bear Oak	90		N			130	150	175		195	205	210
Quercus laurifolia	Laurel Oak	90	_	N	-	-	130	150	175	-	195	205	210
Quercus lyrata	Overcup Oak	90		N	-RF		130	150	175		195	205	210
Quercus marilandica	Blackjack Oak	90		N	RF		130	150	175		195	205	210
Quercus muehlenbergii	Chinkapin Oak	90		N			130	150	175		195	205	210
Quercus nigra	Water Oak	90		N			130	150	175		195	205	210
Quercus stellata	Post Oak	90		N			130	150	175		195	205	210
Robinia pseudoacacia	Black Locust	90		N			130	150	175		195	205	210
Salix babylonica	Babylon Weeping Willow	90					130	150	175		195	205	210
Salix nigra	Black Willow	90		N	<u>RFGC</u>		130	150	175		195	205	210
Sassafras albidum	Sassafras	90		N	RF <u>GC</u>		130	150	175		195	205	210
Taxodium ascendens	Pondcypress	90		N	PL		130	150	175		195	205	210
Taxodium distichum	Common Baldcypress	90		N	<u>RFGC</u>		130	150	175		195	205	210
<i>Tilia cordata</i> (Identify Specific 'Cultivar')	Littleleaf Linden	90			PL		130	150	175		195	205	210
Tilia tomentosa	Silver Linden	90			PL		130	150	175		195	205	210
Acer negundo	Boxelder (Reforestation Only)	x		N	RF		x	x	х		x	x	x
Acer rubrum	Red Maple	130		N	PL, RF GC		150	200	250		225	270	300

	Planting Ca	tegory	Ca	nopy <u>Lar</u>	ge	Deci	duou	<u>S</u>				
	identifies certain species. Gateway Corridor											
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor		C	Canop Coverag (sq. ft.) r Calij 10 Yea	y ge) oer	<u>.0r</u>	C	Canop Coverag (sq. ft. r Calij 20 Yea	y ge) oer
				Uses		1.0"	2.0"	3.0"		1.0"	2.0"	3.0"
Acer saccharinum	Silver Maple (Reforestation Only)	x	N	RF		x	x	x		x	x	x
Acer saccharum	Sugar Maple	130	N	GC		150	200	250		225	270	300
Carya cordiformis	Bitternut Hickory	130	N	GC		150	200	250		225	270	300
Carya glabra	Pignut Hickory	130	N	RF GC		150	200	250		225	270	300
Carya illinoinensis	Pecan	130		GC		150	200	250		225	270	300
Carya laciniosa	Shellbark Hickory	130	N	GC		150	200	250		225	270	300
Carya ovata	Shagbark Hickory	130	N	GC		150	200	250		225	270	300
Carya tomentosa	Mockernut Hickory	130	N	<u>RFGC</u>		150	200	250		225	270	300
Celtis laevigata	Sugar Hackberry	130	Ν			150	200	250		225	270	300
Fagus grandifolia	American Beech	130	N	GC		150	200	250		225	270	300
<i>Gingko biloba</i> (male)	Gingko	130		PL		150	200	250		225	270	300
Juglans nigra	Black Walnut	130	Ν	RF		150	200	250		225	270	300
Liquidambar styraciflua	American Sweetgum	130	N	RF GC		150	200	250		225	270	300
Liriodendron tulipifera	Tuliptree	130	Ν	RF		150	200	250		225	270	300
Platanus occidentalis	Sycamore	130	N	RFGC		150	200	250		225	270	300
Platanus x acerifolia	London Planetree	130		PL <u>, GC</u>		150	200	250		225	270	300
Populus deltoides	Cottonwood	130	N	<u>GC</u>		150	200	250		225	270	300
Quercus alba	White Oak	130	N	GC		150	200	250		225	270	300
Quercus bicolor	Swamp White Oak	130	N	PL, RF<u>GC</u>		150	200	250		225	270	300

	Planting Ca	tegory	- <u>-</u> Ca	nopyLarg	<u>ge Dec</u>	<u>iduou</u>	<u>.s</u>			
	identifies certain speci		-		-					
overhead Utility Line	es. Gateway Corridor	Buffer Yai	<u>rds shal</u>	l be planted	with spe	cies spe	ecified f	for Gate	way Cor	<u>rıdor.</u>
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor		Canop Coveraș (sq. ft. er Calij 10 Yea	ge) per		y ge .) per ur	
				Uses	1.0"	2.0"	3.0"	1.0	" 2.0"	3.0"
Quercus coccinea	Scarlet Oak	130	Ν	PL <u>, GC</u>	150	200	250	225	270	300
Quercus falcata	Southern Red Oak	130	N	PL <u>, GC</u>	150	200	250	225	270	300
Quercus imbricaria	Shingle Oak	130	N		150	200	250	225	270	300
Quercus michauxii	Swamp Chestnut Oak	130	N	PL , RF	150	200	250	225	270	300
Quercus montana	Chestnut Oak	130	Ν	PL <u>, GC</u>	150	200	250	225	270	300
Quercus palustris	Pin Oak	130	N	PL, RF<u>GC</u>	150	200	250	225	270	300
Quercus phellos	Willow Oak	130	N	PL, RF<u>GC</u>	150	200	250	225	270	300
Quercus rubra	Northern Red Oak	130	N	PL, RF<u>GC</u>	150	200	250	225	270	300
Quercus shumardii	Shumard Oak	130		PL <u>, GC</u>	150	200	250	225	270	300
Quercus velutina	Black Oak	130	N	RF	150	200	250	225	270	300
Salix matsudana 'Tortuosa'	Corkscrew Willow	130			150	200	250	225	270	300
Sophora japonica	Japanese Pagodatree	130		<u>GC</u>	150	200	250	225	270	300
<i>Tilia americana</i> (Identify Specific 'Cultivar')	American Linden (Basswood)	130	N	PL , RF	150	200	250	225	270	300
Ulmus americana	American Elm	130	N	PL <u>, GC</u>	150	200	250	225	270	300
Ulmus carpinifolia	Smoothleaf Elm	130			150	200	250	225	270	300
Ulmus parvifolia	Chinese Elm	130		PL <u>, GC</u>	150	200	250	225	270	300
Zelkova serrata	Japanese Zelkova	130		PL, U	150	200	250	225	270	300

N: Native

All species listed may be used to meet the requirements of 7.302 and 7.305. Additionally, certain species may be better suited for the following situations:

overhead Utility Lines.				tter suited for l be planted w	A	-				
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot 2F: Reforestation J: Utility Lines 3C: Gateway Corridor	C Pe	Canopy Coverag (sq. ft.) r Calig 10 Yea	ge))er	C Pe	Canopy Coverag (sq. ft.) r Calip 20 Year	ge))er
				Uses	1.0"	2.0"	3.0"	1.0"	2.0"	3.0"

	Planting Ca	tegory	- <u>_ Sm</u>	all Decidu	ious	Un	dersta	ry			
The Uses column iden											rhead
Botanical Name	Gateway Corridor But	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor	<u>n spec</u>	(Pé	Canopy Coveraş (sq. ft.) er Calij 10 Yea	y ge) oer	(Pe	Canop Coveraş (sq. ft.) er Calij 20 Yea	ge) per
				Uses	1	.0"	2.0"	3.0"	1.0"	2.0"	3.0"
	I										
Acer buergerianum	Trident Maple	55		GC		75	100	125	115	135	150
Acer campestre	Hedge Maple	55		U		75	100	125	115	135	150
Acer ginnala	Amur Maple	55		U		75	100	125	115	135	150
Acer griseum	Paperbark Maple	55				75	100	125	115	135	150
Acer palmatum	Japanese Maple	55		U		75	100	125	115	135	150
Aesculus pavia	Red Buckeye	55		PL		75	100	125	115	135	150
Amelanchier arborea	Downy Serviceberry	55	N	RF, U		75	100	125	115	135	150
Amelanchier canadensis	Shadblow Serviceberry	55	N	U <u>, GC</u>		75	100	125	115	135	150
Amelanchier laevis	Allegheny Serviceberry	55	N	RF, U, <u>GC</u>		75	100	125	115	135	150
Asimina triloba	Common Pawpaw	55	Ν	RF GC		75	100	125	115	135	150
Betula populifolia	Gray Birch	55		RF		75	100	125	115	135	150
Carpinus caroliniana	American Hornbeam	55	Ν	RFGC		75	100	125	115	135	150
Castanea pumila	Allegheny Chinkapin	55	N	<u>GC</u>		75	100	125	115	135	150
Cercis canadensis	Redbud	55	Ν	RF, U, <u>GC</u>		75	100	125	115	135	150
Chionanthus virginicus	White Fringetree	55	N	U		75	100	125	115	135	150
Cornus alternifolia	Pagoda Dogwood	55	Ν			75	100	125	115	135	150
Cornus florida	Flowering Dogwood	55	N	RF, U		75	100	125	115	135	150
Cornus kousa	Kousa Dogwood	55		U <u>, GC</u>		75	100	125	115	135	150
Crataegus coccinea	Scarlet Hawthorn	55		RF		75	100	125	115	135	150

	Planting Ca	tegory -	<u>– Sm</u>	all Decid	uou	<u>is</u> Uno	derste)ry				
	ntifies certain species t Gateway Corridor Buf											rhead
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor		(Pe	Canop Covera (sq. ft. er Calij 10 Yea	y ge) oer r		(Po	Canop Coverag (sq. ft.) er Calij 20 Yea	ge) per r
				Uses		1.0"	2.0"	3.0"	1	.0"	2.0"	3.0"
Crataegus crusgalli	Cockspur Hawthorn	55	N	RF		75	100	125		115	135	150
Crataegus phaenopyrum	Washington Hawthorn	55	N	U		75	100	125		115	135	150
Crataegus viridus	Winter King Hawthorn	55		<u>GC</u>		75	100	125		115	135	150
Franklinia alatamaha	Franklinia	55	N			75	100	125		115	135	150
Halesia diptera	Two-Winged Silverbell	55	N	<u>GC</u>		75	100	125		115	135	150
Halesia tetraptera	Carolina Silverbell	55	N	GC		75	100	125		115	135	150
Hamamelis virginiana	Witchhazel	55	N	RF, U <u>,</u> GC		75	100	125		115	135	150
Koelreuteria paniculata	Panicled Goldenraintree	55		GC		75	100	125		115	135	150
Laburnum x. wateri	Golden Chain	<u>55</u>				<u>75</u>	<u>100</u>	<u>125</u>		<u>115</u>	<u>135</u>	<u>150</u>
Lagerstroemia spp. (Identify Species & 'Cultivar')	Crape Myrtle	55		U		75	100	125		115	135	150
Magnolia x soulangeana	Saucer Magnolia	55				75	100	125		115	135	150
Magnolia stellata	Star Magnolia	55		U		75	100	125		115	135	150
Magnolia virginiana	Sweetbay Magnolia	55	N	RF, U, <u>GC</u>		75	100	125		115	135	150
Malus spp.	Crabapple	55		U		75	100	125		115	135	150
Morus rubra	Red Mulberry	55	N	RF		75	100	125		115	135	150
Oxydendrum arboreum	Sourwood	55	N	RF GC		75	100	125		115	135	150
Persea borbonia	Redbay Sweetbay	55	Ν			75	100	125		115	135	150

	Planting Cat	tegory	- <u>Sn</u>	nall Decid	<u>uo</u>	<u>us</u> Un	dersta	ry				
The Uses column iden												rhead
Botanical Name	Gateway Corridor Buf	Minimum Planting Area in sq. ft.	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor	<u>In s</u>	(Pc	Canopy Coveraş (sq. ft.) er Calip 10 Yea 2.0"	y ge) Der		C Pe	Canopy Coverag (sq. ft.) er Calip 20 Year 2.0"	ge) per
				0 363		1.0	2.0	5.0		1.0	2.0	5.0
Prunus americana	American Wild Plum	55	N			75	1 00	125		115	135	150
Prunus cerasifera	Flowering Plum	55		U		75	100	125		115	135	150
Prunus virginiana	Choke Cherry	55	N			75	100	125	-	115	135	150
Prunus x incamp 'Okame'	'Okame' Cherry	55		U		75	100	125		115	135	150
Rhamnus caroliniana	Carolina Buckthorn	55	N			75	100	125	_	115	135	150
Stewartia koreana	Korean Stewartia	55		U		75	100	125		115	135	150
Stewartia ovata	Mountain Stewartia	55		U		75	100	125		115	135	150
Stewartia pseudocamellia	Japanese Stewartia	55		U <u>, GC</u>		75	100	125		115	135	150
Styrax japonicus	Japanese Snowbell	55		U <u>, GC</u>		75	100	125		115	135	150
Syringa reticulata	Japanese Tree Lilac	55		U		75	100	125		115	135	150
All species listed ma	y be used to meet the PL: Parking	suited for	nents of or the fo	Native 7.302 and 7.3 llowing situat	ion	i . Addit 1s: U: Util			spe	ecies ma	ay be b	etter

	Plar	nting (Catego	ryE	vei	rgree	n					
	dentifies certain speci											ines.
Gateway	y Corridor Buffer Yar	ds shall	be plante	ed with spec	cies	s specif	ied for	Gateway	<u>y C</u>	orridor	<u>.</u>	
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	N: Native	<u>PL: Parling Lot</u> <u>RF: Reforestation</u> U: Utility Lines GC: Gateway Corridor		(P	Canop Covera (sq. ft. er Heig 10 Yea	ge) ght		C P	y ge) ght ir	
				Uses		6.0'	8.0'	10.0'		6.0'	8.0'	10.0'
		1	_					1				
<i>Ilex x attenuata</i> 'Fosteri'	Foster's Holly	35		U <u>, GC</u>		45	55	75		70	75	90
<i>Ilex x</i> 'Nellie R. Stevens'	Nellie Stevens Holly	35		U <u>, GC</u>		45	55	75		70	75	90
<i>Juniperus chinensis</i> (Identify Specific 'Cultivar')	Chinese Juniper	35		U		45	55	75		70	75	90
<i>Juniperus virginiana</i> 'Manhattan Blue' 'Princeton Sentry'	Manhattan Blue Princeton Sentry	35				45	55	75		70	75	90
Taxus baccata	English Yew	35				45	55	75		70	75	90
<i>Taxus baccata</i> 'Fastigiata'	Upright Irish Yew	35				45	55	75		70	75	90
<i>Thuja occidentalis</i> (Identify Specific 'Cultivar')	Eastern Arborvitae	35	Ν	RF		45	55	75		70	75	90
<i>Thuja orientalis</i> (Identify Specific 'Cultivar')	Oriental Arborvitae	35				45	55	75		70	75	90
Abies concolor	White Fir	55				75	100	125		115	135	150
Chamaecyparis lawsoniana	Lawson Falsecypress	55				75	100	125		115	135	150
Chamaecyparis obtusa	Hinoki Falsecypress	55				75	100	125		115	135	150
Chamaecyparis thyoides	Atlantic White Cedar	55	N			75	100	125		115	135	150
Cryptomeria japonica	Japanese Cryptomeria	55		<u>GC</u>		75	100	125		115	135	150
X Cupressocyparis leylandii	Leyland Cypress	55				75	100	125		115	135	150
Ilex aquifolium	English Holly	55		U		75	100	125		115	135	150
Ilex opaca	American Holly	55	N	RF, U, <u>GC</u>		75	100	125		115	135	150

	Plar	nting (Cate	g 0	ryEvo	ergree	n						
	dentifies certain speci											ines.	
Gateway	y Corridor Buffer Yar	<u>ds shall</u>	<u>be pla</u>	ante	ed with specie	es specif	fied for	Gateway	<u>y C</u>	orridor	<u>-</u>		
Botanical Name	Common Name	Minimum Planting Area in sq. ft.	:	N: Native	PL: Parking Lot RF: Reforestation U: Utility Lines GC: Gateway Corridor		Canop Covera (sq. ft. Per Heiş 10 Yea	ge) ght		Canopy Coverage (sq. ft.) Per Height 20 Year 6.0' 8.0' 10			
					Uses	6.0'	8.0'	10.0'		6.0'	8.0'	10.0'	
	1												
Juniperus virginiana	Eastern Red Cedar (Do not plant within 900 ft. of commercial orchards)	55	ſ	N	RF GC	75	100	125		115	135	150	
Picea glauca	White Spruce	55			RF	75	100	125		115	135	150	
Picea omorika	Serbian Spruce	55				75	100	125		115	135	150	
<u>Picea orientalis</u>	Oriental Spruce	<u>55</u>				<u>75</u>	<u>100</u>	<u>125</u>		<u>115</u>	<u>135</u>	<u>150</u>	
Picea pungens	Colorado Spruce	55				75	100	125		115	135	150	
Pinus bungeana	Lacebark Pine	55				75	100	125		115	135	150	
Pinus parviflora	Japanese White Pine	55				75	100	125		115	135	150	
Pinus serotina	Pond Pine	55	1	N		75	100	125		115	135	150	
Pseudotsuga menziesii	Douglasfir	55				75	100	125		115	135	150	
<i>Taxus cuspidata</i> (Identify Specific 'Cultivar')	Japanese Yew	55			- 1	75	100	125		115	135	150	
Thuja plicata	Western Arborvitae	55				75	100	125		115	135	150	
Tsuga canadensis	Canadian Hemlock	55	1	N		75	100	125		115	135	150	
Tsuga caroliniana	Carolina Hemlock	55	1	N		75	100	125		115	135	150	
Cedrus atlantica	Atlas Cedar	90				125	150	175		190	205	210	
Picea abies	Norway Spruce	90			GC	125	150	175		190	205	210	
Pinus echinata	Shortleaf Pine	90	1	N	RF	125	150	175		190	205	210	
Pinus sylvestris	Scotch Pine	90				125	150	175		190	205	210	
Cedrus deodara	Deodar Cedar	110			GC	125	150	175		190	205	210	
Magnolia grandiflora	Southern Magnolia	110			<u>GC</u>	125	150	175		190	205	210	

Planting Category Evergreen												
	dentifies certain speci					_						ines.
Gateway Corridor Buffer Yards shall be planted with species specified for Gateway Corridor.Botanical NameCommon Nameit is is in the species specified for Gateway Corridor.Canopy Coverage (sq. ft.)Canopy Coverage (sq. ft.)Canopy Coverage (sq. ft.)Canopy Coverage (sq. ft.)Canopy Coverage (sq. ft.)Canopy Coverage (sq. ft.)									ge) ght			
					Uses		6.0'	8.0'	10.0'	6.0'	8.0'	10.0'
Pinus rigida	Pitch Pine	110	N	J	-		125	150	175	190	205	210
Pinus strobus	Eastern White Pine	110	N		RF		125	150	175	190	205	210
Pinus taeda	Loblolly Pine	110	N	V	RFGC		125	150	175	190	205	210
- N: Native All species listed may be used to meet the requirements of 7.302 and 7.305. Additionally, certain species may be better suited for the following situations: -RF: Reforestation U: Utility lines												

	ing Category: Sh				m Height 30")		
Gateway	y Corridor Buffer Yard	s shal	be plante	d with species specified fo	or Gateway Corridor.	I	1
Botanical Name	Common Name	N: Native	RF: Reforestation GC: Gateway Corridor	Botanical Name	Common Name	N: Native	RF: Reforestation
Aesculus parviflora	Bottlebrush Buckeye			<i>Ilex spp.</i> (Identify Species & 'Cultivar')	Holly	N	
Alnus spp. (Identify Species & 'Cultivar')	Alder	N	RF	Itea virginica	Virginia Willow (Sweetspire)	N	RI GC
Aronia spp. (Identify Species & 'Cultivar')	Chokeberry	N	GC	Iva fruitescens	Marsh Elder	N	
Aucuba japonica	Japanese Aucuba			Kerria japonica	Japanese Kerria		
Baccharis halimifolia	High Tide Bush	N		<i>Leucothoe spp.</i> (Identify Species & 'Cultivar')	Leucothoe	N	
<u>Buddelia davidii</u>	Butterfly Bush		GC				
Callicarpa americana	American Beautyberry	N	GC	Lindera benzoin	Spicebush	N	RI
Caryopteris x clandonensis	Blue-Mist Shrub		<u>GC</u>	Lyonia lucida	Shining Fetterbush	N	
Ceanothus americanus	New Jersey Tea	N		Myrica pensylvanica	Northern Wax Myrtle	N	
Cephalanthus occidentalis	Buttonbush	N		Photinia spp. (Identify Species & 'Cultivar')	Choke Cherry		RI
<u>Chimonanthus</u> <u>praecox</u>	<u>Fragrant</u> <u>Wintersweet</u>		GC				
Clethra alnifolia	Sweet Pepper-Bush	N	<u>GC</u>	Physocarpus opulifolius	Common Ninebark		RI
<i>Cornus spp.</i> (Identify Species & 'Cultivar')	Dogwood	N	RF GC	Rhododendron viscosum	Swamp Azalea	N	
Corylus americana	American Hazelnut		RF	<i>Rhus spp</i> . (Identify Species & 'Cultivar')	Sumac	N	
<u>Corylopsis</u> pauciflora	Buttercup Winterhazel		GC				
<u>Corylopsis spicata</u>	Spike Winterhazel		<u>GC</u>				
Cotinus coggygria	Smoketree	1	GC	Rosa spp. carolina	Pasture-Rose	N	GC

Gateway	<u>Corridor Buffer Yard</u>	<u>s shall</u>	be plante	d with species specified fo	r Gateway Corridor.	1	I
Botanical Name	Common Name	N: Native	RF: Reforestation GC: Gateway Corridor	Botanical Name	Common Name	N: Native	RF: Reforestation
			USCS				
Cotinus obovatus	American Smoketree	N	RF <u>GC</u>	Rubus spp. (Identify Species & 'Cultivar')	Blackberry	N	
<u>Cottoneaster spp</u>	Cottoneaster						
Crataegus flabellata	Fanleaf Hawthorn		RF	Salix spp. (Identify Species & 'Cultivar')	Willow	N	
Cyrilla racemiflora	Swamp Cyrilla	N		Sambucus canadensis	Common Elderberry	N	₽
Deutzia gracilis	Deutzia			Spirea spp. (Identify Species & 'Cultivar')	Spirea	N	G
<i>Euonymus spp.</i> (Identify Species & 'Cultivar')	Euonymus	N		Stewartia malacodendron	Silky Camelia	N	
<u>Fothergilla</u> gardenia	Dwarf Fothergilla		GC				
Fothergilla major	Fothergilla		<u>GC</u>	Styrax americanus	American Snowbell		
<i>Gaylussacia spp.</i> (Identify Species & 'Cultivar')	Huckleberries	N		Symphoricarpos orbiculatus	Coral Berry		₽
Hydrangea spp. (Identify Species & 'Cultivar')	Hydrangea	N	GC	Vaccinium spp. (Identify Species & 'Cultivar')	Vaccinium	N	R
<i>Hypericum spp.</i> (Identify Species & Culltivar)	St. John's Wort			Viburnum spp. (Identify Species & 'Cultivar')	Viburnum	N	E
				<u>Vitex agnus</u>	Chastetree		G
			N: N	ative	-		

Pla	nting Category: S	Shru	bs	Evergreen (Mini	i mum Height 30")		
Gatew	ay Corridor Buffer Ya	<u>rds sha</u>	all be pla	nted with species specified	for Gateway Corridor.		1
Botanical Name	Common Name	N: Native	Sast Gateway Corridor	Botanical Name	Common Name	N: Native	sos GC: Gateway Corridor
					1		•
Berberis julianae	Wintergreen Bearberry			Pieris floribunda	Evergreen Mountain Fetterbush	Ν	
Buxus microphylla	Littleleaf Boxwood		<u>GC</u>	Pieris japonica	Japanese Pieris		
<u>Buxus sempervirens</u>	Common Boxwood		<u>GC</u>				
Camellia japonica	Japanese Camellia			Potentilla fruticosa	Cinquefoil		
<i>Euonymus spp.</i> (Identify Species & 'Cultivar')	Euonymus			Prunus laurocerasus	Common Cherry Laurel		<u>GC</u>
Gaultheria procumbens	Wintergreen	N		Rhododendron atlanticum	Dwarf Azalea	Ν	
Ilex x aquipernyi	Dragon Lady Holly			Rhododendron calendulaceum	Flame Azalea	Ν	
Ilex cornuta	Chinese Holly			Rhododendron catawbiense	Catawba Rhododendron	Ν	
<i>Ilex cornuta</i> 'Burfordii'	Burford Holly			Rhododendron cumberlandense	Cumberland Flame Azalea	Ν	
Ilex crenata	Japanese Holly			Rhododendron maximum	Great Rhododendron Rose Bay	Ν	
Ilex glabra	Inkberry	N	GC	Rhododendron periclymenoides	Pinxter Flower	N	
Ilex spp. (Identify Species & 'Cultivar')	Holly		<u>GC</u>	Rhododendron prinophyllum	Rose Azalea	Ν	
Ilex vomitoria	Yaupon Holly	N		<i>Rhododendron spp.</i> (Identify Species & 'Cultivar')	Azalea and Rhododendron		
Juniperus spp. (Identify Species & 'Cultivar')	Juniper		GC	Skimmia japonica	Japanese Skimma		
Kalmia latifolia	Mountain Laurel	Ν	GC	Taxus baccata	English Yew		
Mahonia aquifolium	Oregon Grapeholly			Taxus cuspidata	Japanese Yew		

	0 0 0			Evergreen (Mini ed with species specified	Č ,		
Botanical Name	Common Name	N: Native	GC: Gateway Corridor	Botanical Name	Common Name	N: Native	GC: Gateway Corridor
Morella cerifera	Southern Wax Myrtle	N	GC	Taxus x media	Anglojap Yew		
Osmanthus heterophyllus	Falseholly	N					
			N: Nat	we			

7.800 ARCHAEOLOGY AND HISTORIC RESOURCES

7.810 PHASE I-ARCHAEOLOGICAL SURVEY

The purpose of the <u>Phase I an</u> archaeological survey is to identify the locations of existing archaeological <u>and historic</u> resources, <u>including cemeteries</u>, <u>burial grounds</u>, <u>and graves</u> on a property subject to the application.

- A. AllThe Phase I archaeological surveys required by this Section shall be conducted by a qualified professional meeting the Qualification Standards as set forth in "the Secretary of the Interior's <u>Standards and Guidelines for Archaeology and Historic</u> <u>Preservation</u>" as defined in 36 CFR 61, Appendix A.
- B. The Phase I aArchaeological survey and reporting shall meet the standards set forth in the <u>Virginia Department of Historic Resources (VDHR</u>) "Guidelines for Conducting Historic Resources Survey in Virginia."
- C. The Phase I archaeological survey is recommended to test the entire property. <u>A</u> Phase I archaeological survey is required The applicant may limit the Phase I archaeological survey only tofor areas of proposed subsurface disturbance, including, but not limited to, the house/outbuilding footprints, drainfields, roads and paved areas, sidewalks, utility lines, borrow pits, staging areas, and stockpiling areas, <u>but is recommended for the entire property</u>. ; however, iIf areas of proposed subsurface disturbance are changed to include areas not previously tested, additional Phase I Archaeological testing of the non-tested areas will be required. A reconnaissance level ("walkover") survey of any area of the property not subject to the Phase I Archaeological Survey shall be conducted to identify potential cemeteries, burial grounds, and/or graves. The results of the reconnaissance level survey shall be provided with the Phase I archaeological report.
- D. If the Phase I Archaeological Survey is limited only to areas of proposed subsurface disturbance or if multiple Phase I Archaeological Surveys are submitted for an application, a separate sheet for informational purposes only and not for recordation shall be submitted at a maximum 1:2400 scale (1 inch = 200 feet) delineating existing parcel boundaries, proposed development layout, and boundaries of the Phase I Archaeological Survey testing areas.
- E. The Director may approve a Phase I Archaeological Management Summary Report, in lieu of the reporting required by VDHR's "Guidelines for Conducting Historic Resources Survey in Virginia," if the Phase I archaeological survey does not result in the identification of archaeological sites, or results in the identification of archaeological resources that are determined by the consultant to warrant no further archaeological investigation. The Phase I Archaeological Management Summary Report must include the following:

- 1. A brief description of the property with a vicinity map.
- 2. The testing methodology and rationale, including a summary of previously identified sites in the vicinity and results of historic map research.
- 3. A topographic map of project area showing areas tested, with the shovel test locations delineated.
- 4. The results of fieldwork including artifact inventory and brief description of any identified sites.
- 5. The rationale for site recommendations if applicable.

6. Results of the reconnaissance level survey.

F. The Director may waive or modify the requirement for Phase I archaeological survey and reporting after determining that a site has little or no potential for cultural resources based on a finding such as (a) the site has been subject to prior significant grading or ground disturbance beyond normal agricultural use, or (b) the site contains environmental characteristics (such as slopes, wetlands, hydric soils) that would have rendered previous human occupation reasonably unlikely. Variations (WAIV) of the requirement for the reconnaissance level survey shall not be permitted.

7.820 PRESERVATION OF HISTORIC CEMETERIES, BURIAL GROUNDS, AND GRAVES

- A. In order to preserve existing cemeteries, burial grounds, and graves for human remains, all preliminary plats of subdivision, and all site plans and construction plans and profiles if not previously provided with a preliminary plat of subdivision, shall include a professionally prepared archaeological delineation of the perimeter boundary of all burials if any cemeteries, burial grounds, or graves are identified during the archaeological survey. The delineation shall be conducted in accordance with standard archaeological practices, such as, but not limited to, shallow mechanical trenching extending outward from location of the visible areas of the identified cemetery, burial ground, or grave to remove topsoil so that soil discolorations indicative of burials may be viewed, or systematic probing with rods to detect differences in soil compaction indicative of burials. The perimeter boundary of the cemetery, burial ground, or grave shall be delineated five (5) feet from the edge of the identified burials, and any future burial locations if applicable.
- B. The cemetery, burial ground, or grave and associated buffer area as required by the Zoning Ordinance shall be located within an easement granted to Loudoun County in a form approved by the County. The perimeter boundary of a cemetery, burial ground, or grave as determined by the archaeological delineation and the associated easement shall be indicated on the site plan, construction plans or profiles, preliminary plat of subdivision, and associated plat applications as required by

Chapter 8. A digital file of the boundary of the cemetery, burial ground, or grave prepared in accordance with the Office of Mapping and Geographic Information Digital Data Submission Guidelines for Cemeteries shall be submitted prior to approval of the site plan, construction plans or profiles, or preliminary plat of subdivision.

- C. Unimproved pedestrian access to the cemetery, burial ground, or grave shall be provided on the site plan, construction plans or profiles, preliminary plat of subdivision, and associated plat applications as required by Chapter 8, either by a minimum of 15 feet of frontage on a street or by an access easement that shall be a minimum of 15 feet wide from a street or other point of public ingress.
- D. Prior to any land disturbance, protective barriers, such as Super Silt Fence as shown in Figure 3, or welded wire fence as shown in Figure 6, shall be installed along the limits of clearing and grading proximate to the cemetery, burial ground, or grave.
- E. Subsections A. through D., above, shall not preclude exhumation and re-interment of burials in accordance with the Code of Virginia. The plan approved by the Virginia Department of Historic Resources for such exhumation and re-interment shall be provided to the County Archaeologist prior to exhumation.

7.830 CEMETERY, BURIAL GROUND, AND GRAVE TREATMENT PLAN

A Treatment Plan shall include the following:

- A. A map depicting the perimeter boundary of the cemetery, burial ground, or grave; all associated burial site elements (such as fences, walls, gates, landscape features, plantings associated with burials, fieldstones, and tombstones); the required and proposed Cemetery, Burial Ground, and Grave Buffers; existing vegetation to be preserved or conserved and proposed landscaping, opaque barriers, or hardscaping; proposed grading; proposed pedestrian access easement; and existing and proposed surrounding uses.
- B. An inventory of existing burial site elements depicted on the map and their condition.
- C. A description of the existing vegetation to be preserved or conserved, or removed, treatment of invasive species excluding any species planted in association with burials, and any proposed landscaping within the buffer.
- D. A description of the physical demarcation of the perimeter boundary.
- E. A description of any proposed opaque barriers, fencing, or hardscaping.
- F.A description of any proposed interpretive signage documenting the cultural and
historical significance of the cemetery, burial grounds, or graves.

G. A description of how the modified buffer will achieve the purpose and intent of the required Cemetery, Burial Ground, and Grave Buffers, and address how the cemetery, burial ground, or grave and its historic context is being preserved through alternative mitigation techniques.

FSM Chapter 8 Amendments – 11/21/19 Board of Supervisors Draft

8.101 GENERAL STANDARDS

The information in this section gives an explanation of standard plat and plan requirements. See the specific requirements of each plat or plan for the requirements of each document.

A. Standards:

- 1. Scale: The scale of the plat or plan shall be shown in feet.
- 2. Proposed Name of Subdivision or Development: No proposed names of subdivisions or developments shall duplicate or closely resemble the name of any existing or currently proposed subdivision or development in Loudoun County. Name should include Phase or Section Number, as applicable.
- 3. Revision Block: A revision block shall be shown on the Cover Sheet (or first sheet) of the plat set and all sheets of the plan set. The Cover Sheet revision block shall contain a summary of all revisions made to any sheet of the plat, or plan, in substantially the following form:

Rev. No.	Sheet Number and Revision Description	Date

All other sheets of the plan set shall include a revision block itemizing the revisions applicable to each sheet, in substantially the following form:

Rev. No.	Revision Description	Date

4. Source of Title: The source of title of the owner (the deed book and page number or instrument number of the last instrument in the chain of title for all included property).

- 5. Zoning Requirements:
 - Preliminary Plats, Site Plans, Construction Plans and Profiles: In a. tabular form show the specific zoning requirements, in accordance with the Zoning Ordinance including proffered or special exception conditions, for the subject property and the existing zoning districts, to include but not limited to: applicable version of the Zoning Ordinance (i.e. 1972, 1993, Revised 1993); Zoning district; overlay zoning districts; minimum lot area; minimum lot width; maximum length/width ratio; minimum front, side and rear yards; maximum floor area ratio; maximum lot coverage; maximum building heights; parking spaces required and provided (including standard and handicap accessible); open space requirements; proposed uses and proposed number of lots. For construction plans and profiles and site plans show floor area ratio or lot coverage calculations as required by the Zoning Ordinance. A note may be added to the plat stating that the zoning requirements are for depiction of current ordinance requirements only and may be subject to change.
 - b. Plats: In tabular form show the specific zoning requirements, in accordance with the <u>Zoning Ordinance</u> including proffered or special exception conditions, for the subject property and the existing zoning districts, to include but not limited to: applicable version of the <u>Zoning Ordinance</u> (i.e. 1972, 1993, Revised 1993); Zoning district; overlay zoning districts; minimum lot area; minimum lot width; maximum length/width ratio; minimum front, side and rear yards; maximum lot coverage; maximum building heights; open space requirements; proposed number of lots. A note may be added to the plat stating that the zoning requirements are for depiction of current ordinance requirements only and may be subject to change.
- 6. Associated Land Development Application Information: Reference to land development application numbers and corresponding approval dates for land development applications preceding the subject application submission that involve the subject property. Land development applications involving only adjacent sections, or expired or superseded land development applications, do not need to be listed.
- 7. Vicinity Map: The plat or plan shall show the location of the proposed subdivision by an insert vicinity map, drawn to a scale 1 inch equals not more than 2000 feet or other appropriate scale as permitted by the Director.
 - c. The existing perimeter boundary line of the proposed subdivision and/or site plan and of any larger tract of which the subdivision and/or site plan forms a part.

- d. Adjoining roads or principal access points with their names and route numbers.
- e. Town boundary lines within one mile of the proposed subdivision.
- f. North arrow.
- 8. Coordinate Grid Tics: Coordinate grid tics and values reflecting the North American Datum of 1983 (NAD 83 HARN) State Plane Virginia North (in US Survey Foot) coordinate grid system with at least three tics or intersection points shall be shown on each plan sheet, for informational purposes, in intervals of no less than 250 foot increments and no more than 1,000 foot increments. For record plats, grid system coordinates of at least two adjacent corners shall be included, if any point in the subdivision is within 1/2 mile of an NGS or equivalent triangulation or traverse station established within the standards for a second order geodetic monument. (Projects that were started prior to November 9, 2009, may use the previously required NAD 27 datum.)
- 9. Adjoining Property Information: MCPI (PIN), adjacent zoning district, and departing property lines shall be shown. For preliminary plats, construction plans and profiles, and site plans the existing adjacent land use shall be indicated for the purpose of determining buffer requirements per the <u>Zoning</u> <u>Ordinance</u>.
- 10. Zoning District and Jurisdictional Boundaries: The zoning district boundaries shall be shown when a property is located in more than one zoning district. Zoning overlay district boundaries shall be shown when a property is located within any zoning overlay district. Jurisdictional boundaries shall be shown for property located in Loudoun County and a town or another county, or which falls under the subdivision control of a town.
- 11. Yard and Setback Lines: Front, side and rear yard and setback lines required by the <u>Zoning Ordinance</u> and/or proffers shall be shown as dashed lines or in tabular form. The dimension from each lot line and the length of the front yard line shall be clearly illustrated and identified. A note may be added to the plat stating that the yard and setback lines are for depiction of current ordinance requirements only and may be subject to change.
- 12. Stakeout Note:

A note shall be provided stating that if requested by the Director, the approximate location of proposed entrances from State-maintained roads will be staked, and the name, address and telephone number of the party who will respond to the Director's request for field assistance, when required, to identify specific areas of proposed development as related to existing site conditions.

13. Approval Block: An approval block shall be provided per the following with appropriate application number provided within:

APPROVAL BLOCK	
LAND DEVELOPMENT APPLICATION NUMBER	
Director of Building & Development Date	

- 14. Fee Check: A fee check, payable to the County of Loudoun, shall be attached to the plat or plan submission. Fee schedules are available from the Director.
- 15. Land Development Application Form: A complete and executed Land Development Application Form with original signatures, as provided by the Director.
- 16. MCPI (PIN) Reference: The MCPI number is required for all properties that are a part of the application. Such references may be made in tabular form or shown on the plat or plan.
- 17. Topography: Topographic information, indicating when and by what means it was made, having contour intervals of 2 feet or less, showing all the area covered by the site, including a 50 foot overlap, and related to the North American Vertical Datum of 1988 (NAVD 88). Areas of forest or other vegetated cover shall also be shown. Champion trees as identified in adopted Federal and State documents shall also be identified. (Projects that were started prior to November 9, 2009, may use the previously required NGVD 29 datum.)
- 18. Seal and Signature: The seal, signature, and date of the Licensed Professional Engineer (P.E.) or Surveyor who prepared this plat or plan shall be shown on each sheet.
- 19. Surveyor's Certificate: A certificate, endorsed by the Licensed Professional Engineer (P.E.) or Surveyor, setting forth the source of title of the owner of the property (deed book and page number or instrument number where owner acquired the property) and the place of record of the last instrument in the chain of title (deed book and page number or instrument number of

the last instrument that vacated, relocated, or otherwise altered any boundary lines of the property, or subdivided the property), in accordance with Section 15.2-2262 of the Code of Virginia, as amended.

20. Source of Floodplain Note: A note shall be provided that describes the source of the existing floodplain information as follows:

"There is no floodplain on the property that is the subject of this application. The current Flood Insurance Rate Map (FIRM) of Loudoun County Community Panel Number for the property that is the subject of this application is <u>{insert number}</u>, effective <u>{insert date}</u>."

OR

"There is floodplain on the property that is the subject of this application. The current Flood Insurance Rate Map (FIRM) of Loudoun County Community Panel Number for the property that is the subject of this application is *{insert number}*, effective *{insert date}*." The depicted boundary of the existing floodplain is based on *{select one}* [if applicable, a site-specific floodplain study or floodplain alteration *{provide application number and approval date}*] [the FIRM] [*{other source with description}*]."

21. Archaeology Notes: A note shall be provided to describe each archaeology survey conducted for the property as follows. No note needs to be provided if a particular survey was not performed.

"A Phase I Archaeological Survey was completed for the property, *{insert* report title}, by *{insert company name}* in *{insert month and year}*."

"A Phase II Evaluation, *{insert report title}*, was completed for Site *{insert number(s)}* by *{insert company name}* in *{insert month and year}*."

"A Phase III Data Recovery, *{insert report title}*, was completed for Site *{insert number(s)}* by *{insert company name}* in *{insert month and year}*."

"A Cemetery Delineation, *{insert report title}*, was completed to identify the boundary of the cemetery associated with Site *{insert number(s)}* by *{insert company name}* in *{insert month and year}*."

8.102 PRELIMINARY PLAT OF SUBDIVISION (SBPL)

The purpose of the preliminary plat of subdivision is to conceptually show the probable lot layout and location of streets and other necessary infrastructure to demonstrate geometric locations of all lots and improvements of such proposed subdivision.

A. Plat Requirements

The preliminary plat of subdivision shall be prepared by a Licensed Professional Engineer (P.E.) or Surveyor. These plats shall contain the data listed below, legibly drawn, on sheets of 24 inches by 36 inches in size, with appropriate matchlines, (if necessary). The following shall be included for each plat as appropriate. The failure to depict the following items on the preliminary plat of subdivision, shall not relieve the developer of any requirement to depict such items on subsequent application.

- 1. The title "Preliminary Plat of Subdivision".
- 2. Scale. (See 8.101)
 - g. Lots less than or equal to 3 acres: 1 inch equals no more than 100 feet.
 - h. Lots greater than 3 acres 1 inch equals no more than 200 feet.
- 3. North arrow.
- 4. Date. A date shall be shown on the cover sheet
- 5. The Proposed Name of Subdivision or Development. (See 8.101)
- 6. a. The name and address of the owner of record.
 - b. The name of the applicant.
 - c. The Licensed Professional Engineer (P.E.) or Surveyor who prepared the plat.
- 7. The number of sheets included in the plat.
- 8. Revision Block. (See 8.101)
- 9. Source of Title. (See 8.101)
- 10. Zoning Requirements. (See 8.101)

In addition to the applicable zoning requirements, as stated in Section 8.101.A.5.a, the following note shall be provided on preliminary plats of subdivision which are preceded by a rezoning or special exception application:

"All development within this subdivision shall be in substantial conformance with (A) the requirements of the applicable concept development plan, proffers and special exception conditions in accordance with (insert specific reference to County application numbers), pursuant to which such concept development plan, proffers and special exception conditions were approved, and (B) any conditions set forth as conditions of approval of this preliminary plat."

- 11. Associated Land Development Application Information. (See 8.101)
- 12. Election District and Loudoun County, Virginia in Title Block.
- 13. Vicinity Map. (See 8.101)
- 14. Boundary lines and total acreage of the proposed subdivision and the acreage remaining in the original tract, if any.
- 15. Proposed lot lines, (showing approximate dimensions), proposed block and lot numbers, and the approximate area of each lot.
- 16. Coordinate Grid Tics. (See 8.101)
- 17. Adjoining Property Information. (See 8.101)
- 18. The Zoning District and Jurisdictional Boundaries. (See 8.101)
- 19. MCPI (PIN) Reference. (See 8.101)
- 20. The approximate location of existing buildings within the subdivision.
- 21. The proposed location, width, centerline and projected Average Daily Traffic (ADT's) of each road or other public or private way within the subdivision. Pedestrian circulation paths shall be shown, including proposed trails and sidewalks, if such improvement is required.
- 22. The approximate location, width, ADT's and centerline of adjoining roads, and access easements with their names and/or route numbers.
- 23. Proposed roads shall include approved and/or reserved road names per the <u>Codified Ordinances</u> of Loudoun County.

- 24. Proposed Yard and Setback Lines. (See 8.101)
- 25. The approximate location and approximate area of any land to be dedicated or reserved for public use, road right-of-way use, or common use of future property owners in the subdivision. The location of any existing and proposed conservation easements.
- 26. Approximate watercourse locations and names, if any, and the boundaries of the FOD, or the proposed boundaries of the floodplain as shown on a floodplain study or floodplain alteration which has been submitted and accepted by the County for review in accordance with Chapter 5 of this manual.
- 27. Source of Floodplain Note. (See 8.101)
- 28. General location of existing drainage ways, ponds, springs, onsite sewage disposal, onsite water supply systems and existing and proposed public water and sewer lines.
- 29. Archaeology Notes. (See 8.101)
- 29.30. The locations of archaeological sites, historic structures, <u>human</u> cemeteries, <u>burial grounds, graves</u>, historic districts, and historic landmarks on the site, if identified by the <u>Phase I</u> Archaeological Surveys performed for the property in accordance with Chapter 7 of this manual and the Phase II Evaluation and Phase III Data Recovery, if applicable.
- 30.31. Current topographic information, indicating when and by what means it was made, having contour intervals of 5 feet or less, showing all the area covered by the subdivision not including residue parcel(s) and related to the North American Vertical Datum of 1988 (NAVD 88). Loudoun County Geographic Information System (LOGIS), which depicts 4-foot contour intervals, may be used. Areas of forest or other vegetated cover shall also be shown. In cases where a Tree Survey has been performed for the property, identified cover type areas and specimen trees shall be depicted. Champion trees as identified in adopted Federal and State documents shall also be identified. (Projects that were started prior to November 9, 2009, may use the previously required NGVD 29 datum.)
- 31.32. Stakeout Note. (See 8.101)
- 32.33. Graphically shown on the plat, Ldn 65 and Ldn 60 aircraft noise contours and any area within one mile of the Ldn 60 aircraft noise contour, as defined by the Zoning Ordinance.
- 33.34. Approval Block. (See 8.101)

- 34.35. Proffered preservation areas shall be clearly delineated (e.g., trees, structures, etc.).
- 35.36. For lots less than 20,000 square feet in size a typical lot detail shall be provided at a scale of not less than 1 inch = 50 feet.
- 36.37. A tabulation of lot yield for those properties being developed pursuant to the Cluster Subdivision Option or Principal/Subordinate Option in the AR-1 or AR-2 Zoning Districts.
- 37.38. Wetlands data as follows:
 - i. Potential jurisdictional waters and wetlands as identified by the Loudoun County Predictive Wetlands Model or a consultant wetland delineation performed in accordance with Army Corps of Engineers (Corps) standards shall be depicted on the plat.
 - j. A note referencing the source of the wetland information depicted on the plat (including the Corps Jurisdictional Determination number and date, if it exists) and indicating that all applicable state and federal permits shall be obtained prior to disturbances within jurisdictional waters and wetlands shall be provided on the plat.
- 38.39. Very Steep Slope Areas and Moderately Steep Slope Areas, as defined and regulated in the <u>Zoning Ordinance</u> and as identified in Loudoun County Geographic Information System (LOGIS), or based on a topographic analysis where a contour interval of 5 feet or less is used.
- <u>39.40.</u> The boundaries of Scenic Creek Valley Buffer and other applicable County environmental buffers.
- 40.41. A soils map certification in accordance with Chapter 6 of this manual.

41.42. Overlay Districts as established in the Zoning Ordinance.

B. Items to Accompany Preliminary Plats of Subdivision

The following items shall accompany the submission of a preliminary plat of subdivision:

1. For any subdivision to be served in accordance with the requirements of the LSDO section relating to onsite sewage disposal systems, written approval of the proposed locations of sewage disposal systems shall be obtained from the Health Director or his designee and submitted with the preliminary plat. For any subdivision proposed to be served by on site wells, the developer shall submit with the preliminary plat written verification from the Health

Director, or his designee, that the Hydrogeologic Report has been reviewed and approved in accordance with Chapter 6 of this manual.

- 2. Fee Check. (See 8.101)
- 3. Land Development Application Form. (See 8.101)
- 4. <u>If not previously provided, Aan Phase I</u> archaeological survey report prepared in accordance with Chapter 7 of this manual. If human cemeteries, burial grounds, or graves are identified, an archaeological delineation prepared in accordance with Chapter 7.
- 5. If within the Limestone Overlay District or Mountainside Development Overlay District, documentation of the submission of an application for, or the submission of a private, Preliminary Soils Review in accordance with Chapter 6 of this manual.
- 6. A letter from the Virginia Department of Conservation and Recreation, Division of Natural Heritage identifying occurrences of natural heritage resources on the property such as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations. If an endangered and threatened species survey has been completed for the property, a copy of the report shall also be submitted.
- 7. If applicable, plan and analysis of VDOT connectivity requirements and locations of stub out streets.
- C. The following items shall be required prior to approval of Preliminary Plats of Subdivision:
 - 1.If not previously provided, a digital file of the boundary of any cemetery,
burial ground, or grave prepared in accordance with the Office of Mapping
Digital Data Submission Guidelines for Cemeteries.
- C.D. Preliminary Plat Review

Following the first review by the County, the Preliminary Plat may be conditionally approved. After the first review, the Director shall prepare and provide an Official Comment Letter setting forth the corrections and revisions that are required or recommended, including, by attachments, the referral comments from the referral agencies. When the Official Comment Letter is received by the applicant, applicant may submit a written response to the Director that it will comply with all County and referral comments as part of its Construction Plans and Profiles and record plat submissions. The Director will consider this response, and if the Director finds that the revision of the Preliminary Plat in accordance with the Official Comment Letter will not substantially alter the conceptual layout of the Preliminary Plat, such Preliminary Plat shall be conditionally approved.

8.103 PLATS FOR SUBDIVISION AND OTHER MISCELLANEOUS PLATS

A. Plat Requirements

The plats shall be prepared by a Licensed Professional Engineer (P.E.) or Surveyor. These plats shall contain the data listed below, legibly drawn, on sheets of 18 inches by 24 inches in size, with appropriate matchlines (if necessary). The following shall be included for each plat as appropriate.

- 1. Scale. (See 8.101)
 - k. Lots less than 1/4 acre; 1 inch equals no more than 50 feet.
 - 1. Lots 1/4 to 3 acres; 1 inch equals no more than 100 feet.
 - m. Lots greater than 3 acres; 1 inch equals no more than 200 feet.
- 2. North arrow.
- 3. Date.
- 4. The name of the subdivision. (See 8.101)
- 5. a. The name of the owner(s) of record.
 - b. The name and address of the Licensed Professional Engineer (P.E.) or Surveyor who prepared the plat.
- 6. Number of sheets included in the plat.
- 7. Revision Block. (See 8.101)
- 8. MCPI (PIN) Reference. (See 8.101)
- 9. Seal and Signature. (See 8.101)
- 10. Surveyor's Certificate. (See 8.101)
- 11. The boundary survey with an error of closure within the limits established by the Commonwealth of Virginia.
- 12. Coordinate Grid Tics. (See 8.101)

- 13. The plat(s), as submitted for signature and recordation, shall be drawn legibly and accurately per <u>Virginia State Library and Archives Standards</u> for plats.
- 14. Zoning Requirements. (See 8.101)
- 15. Zoning District and Jurisdictional Boundaries. (See 8.101)
- 16. Associated Land Development Application Information. (See 8.101)
- 17. Election District and Loudoun County, Virginia in the Title Block.
- 18. Vicinity Map. (See 8.101)
- 19. The plat shall show parcel and lot lines, showing dimensions, block and lot numbers, and the area of each parcel or lot including area outside of major floodplain. Dimensions shall be shown in feet and decimals of a foot to the closest one-hundredth of a foot, and bearings in degrees, minutes, and seconds. The data for curves shall be shown in detail at the curve or in a curve data table containing the following: radius, delta, arc, tangent, chord, and chord bearing. Acreage shall be shown to the ten thousandth decimal place and square footage to the nearest whole foot and all of the remaining area in the original tract/residue parcels to the nearest one hundredth of an acre.
- 20. Roadways shall include approved and/or reserved names per the <u>Codified</u> <u>Ordinances</u> of Loudoun County. Existing public roadways shall include route numbers and road names.
- 21. The location, dimensions of easements, dimensions and area of roadways, public sites (schools, fire and rescue facilities, etc.), parks and other public areas shall be included.
- 22. Adjoining Property Information. (See 8.101)
- 23. Graphically shown on the plat, Ldn 65 and Ldn 60 aircraft noise contours and any area within one mile of the Ldn 60 aircraft noise contour, as defined by the <u>Zoning Ordinance</u>.
- 24. Yard and Setback Lines. (See 8.101)
- 25. If land is being dedicated or reserved for public use for roads, parking areas for public use, or for common use of the future property owners of the subdivision, the record plat shall so state and illustrate such.
- 26. As applicable, the location, width, and centerline of existing/proposed roads, easements, and public or private rights-of-way within or immediately

abutting the property. Instrument numbers or deed book and page numbers shall be provided, as applicable.

- 27. If not otherwise contained within the deed accompanying the plat, the plat shall contain a statement to the effect that the subdivision is with the free consent and in accordance with the desire of the undersigned owners and trustees of the property and shall be duly acknowledged in accordance with Section 15.2-2264 of the Code of Virginia of 1950, as amended.
- 28. The plat shall indicate Health Director approved sewerage disposal systems and water supply systems, as specified in the Loudoun County <u>Codified</u> <u>Ordinances</u>.
- 29. The plat shall contain a statement setting forth the persons or entities responsible for maintenance of stormwater detention, drainage facilities, easements, sidewalks, trails, lighting and other facilities, as applicable.
- 30. In the AR-1, AR-2, A-10 and A-3 Zoning Districts, record plats shall contain the following statement:

"In all areas within the AR-1, AR-2, A-10 or A-3 Zoning Districts, agricultural and rural economy activities are the preferred land uses. Owners of land within AR-1, AR-2, A-10 or A-3 Zoning Districts are hereby notified that agricultural and rural economy activities shall be given preference by the County when conflicts arise concerning the compatibility of such farm or rural economy uses with adjacent or nearby non-farm or non-rural economy uses. The County shall not restrict or interfere with farming and rural economy activities in AR-1, AR-2, A-10 or A-3 Zoning Districts. The farming and rural economy activities, including such effects as noise, odors, and machinery traffic, shall not be recognized or accepted by the County as valid or proper cause for complaints from adjacent or nearby residential neighbors."

- 31. Watercourses and names, if any.
- 32. Source of Floodplain Note. (See 8.101)
- <u>33.</u> A floodplain easement in accordance with Chapter 5 of this manual.
- 34. Archaeology Notes. (See 8.101)
- 35. The boundaries of any archaeological delineation of human cemeteries, burial grounds, or graves, and the associated easement and pedestrian access easement.
- <u>33.36.</u> Restrictive covenants. Instrument or deed book and page numbers shall be provided, as applicable.

- 34.37. An Approval Block. (See 8.101)
- 35.38. If private roads or access easements are proposed, the following notes shall be provided:
 - a. "Construction of the private road(s) and/or access easement(s) shown hereon shall conform to the standards set forth in the Loudoun County Land Subdivision and Development Ordinance and Chapter 4 of the Facilities Standards Manual."

AND

- b. One of the following notes, as applicable:
 - i. "The streets in this subdivision do not meet the standards necessary for inclusion in the system of state highways and will not be maintained by the Virginia Department of Transportation or the County and are not eligible for rural addition funds or any other funds appropriated by the General Assembly and allocated by the Commonwealth Transportation Board."

OR

Where streets are required to meet VDOT standards for design and construction, but which are not intended for acceptance as part of the secondary system of state highways.

ii. "Although the streets in this subdivision are required to meet VDOT standards for design and construction, such streets are not intended for inclusion in the system of state highways and will not be maintained by the Department of Transportation or the County and are not eligible for rural addition funds or any other funds appropriated by the General Assembly and allocated by the Commonwealth Transportation Board."

AND

- c. "The access serving these lots is private and its maintenance, including snow removal, is <u>NOT</u> a public responsibility."
- 36.39. The location of structures (e.g., buildings, barns, sheds) to be retained, including stone walls within areas to be dedicated for public right-of-way.
- <u>37.40.</u> Designation of ADU lots in accordance with <u>Zoning Ordinance</u>.

- <u>38.41.</u> If the property is being developed pursuant to the Principal/Subordinate Subdivision Option, the following as appropriate:
 - a. Tabulations showing the lot yield originally calculated for the Originating Tract, all prior subdivisions from the Originating Tract, and all resulting Principal Lots and number of Subordinate Lots created pursuant to each such subdivision.
 - b. Labels clearly identifying the Principal and Subordinate lot (s).
 - c. A note stating that "Subordinate lots are ineligible for further subdivision."
- 39.42. If the property is being developed pursuant to the Cluster Subdivision Option in the AR-1 or AR-2 Zoning District, the following as appropriate:
 - a. A tabulation of density for such cluster subdivision.
 - b. Inclusion of note on the record plat and documentation within the deed stating that all lots are ineligible for further subdivision.
- 40.43. All subdivisions which include AR or TR zoned property shall include a note on the record plat and within the deed indicating that agricultural operations enjoy the protection of the Right to Farm Act.
- B. Items to Accompany Plats

The following items shall accompany the submission of the plat.

- 1. Verification of Water Supply and Sewage Disposal.
 - a. If not already provided as part of a Preliminary Subdivision:
 - i. A letter signed by the Health Director evidencing conformance with applicable requirements of the County Health Department.
 - ii. If public water or public sewerage is to be provided by an entity other than Loudoun Water, a letter signed by an authorized official of that entity shall be submitted indicating that service can and will be provided.
- 2. Fee Check. (See 8.101)
- 3. Land Development Application Form. (See 8.101)

- 4. If not previously provided with a Preliminary Plat of Subdivision or Construction Plans and Profiles, Steep Slopes data as follows:
 - a. For any proposed parcel of land or road that includes within its boundaries Very Steep Slope Areas and/or Moderately Steep Slope Areas, as defined and regulated in the <u>Zoning Ordinance</u>, the following shall be depicted on a separate sheet for informational purposes only and not for recordation: topographic information at contour intervals of 5 feet or less and the location and extent of Very Steep Slope Areas and Moderately Steep Slope Areas; land disturbing activities including, but not limited to, any proposed building and structure sites, driveways and paved areas, drainfields and associated septic lines, wells and associated water lines, minor utilities, and public sanitary sewer and water lines; and mitigation measures. Such information shall satisfy Locational Clearance submission requirements for Steep Slope Areas.
- C. Final Documents

Prior to plat approval, the following items must be submitted for review and approval to the Director:

- 1. If improvements for which a performance bond is required under Section 8.300 of this chapter are not completed, a performance bond in the form of a cash escrow, letter of credit, or corporate surety bond, along with the appropriate performance agreement, shall be submitted. Such performance bond must be accepted by the Board of Supervisors or designee prior to plat approval.
- 2. An unexecuted copy of the deed. Such deed shall:
 - a. Contain a correct description of the land subdivided or adjusted and state that such subdivision or adjustment is with the free consent and in accordance with the desire of the undersigned owners and trustees of the property and shall be duly acknowledged in accordance with Section 15.2-2264 of the Code of Virginia, as amended.
 - b. Contain language such that, when the deed is recorded, it shall operate to transfer, in fee simple, to the Board of Supervisors such portion of the premises platted as is on the plat set apart for roadways or other public use, and transfer to the Board of Supervisors, or to such association or public authority as the Board of Supervisors may provide, any easement indicated on the plat as the Board of Supervisors may require.
 - c. Contain protective or restrictive covenants, if applicable.

- d. Contain, when applicable, provisions for maintenance and indemnification by the property owner with respect to any structure, including permanent fences and stone walls, within the proposed and future public right-of-way.
- 3. When the developer is required to establish an owners' association prior to approval of the plat to satisfy proffer or other zoning or regulatory requirements, or in cases where land or facilities are to be conveyed to and owned in perpetuity by an owner's association, copies of the owner's association's documents shall be submitted.

For properties located within the Goose Creek Reservoir Protection area as defined in Chapter 5 of this manual, such owner's association documents shall include covenants requiring the association to maintain the storm drainage inlet structure markings described in Chapter 5 and covenants restricting the use of pesticides, herbicides and fertilizers to those materials which are labeled safe for aquatic use.

- 4. A letter from the obligor acknowledging that a maintenance and indemnification agreement satisfactory to the Board of Supervisors to provide for public facilities maintenance must be executed and delivered to the Director prior to final release of the financial guarantee.
- 5. Certificate by subdivider that structures subject to <u>Zoning Ordinance</u> minimum yard requirements, which are not shown on the plat, will be removed, unless satisfactory alternate arrangements have been approved by the Director.
- 6. Paper copies as requested by the County.
- 7. If not included in the deed:
 - a. A Deed of Release if there are deed of trust trustees who are not parties and signatories to the deed; or
 - **b.** A letter or other documentation from the owner which certifies that there is no deed of trust lien on the property.
- 8. Water or sewerage facility documentation:
 - a. For development(s) served by public water or sewerage facilities, documentation from the <u>Loudoun County Sanitation Authority</u> (Loudoun Water), or appropriate town, indicating that a performance bond adequate to assure the installation of water or sewerage facilities in a manner which will satisfy its requirements has been approved.

- b. For development(s) served by private well or septic facilities, documentation from the Loudoun County Health Department indicating that such facilities have been approved.
- 9. A copy of the document establishing the funding mechanism providing maintenance of the common facilities in accordance with the <u>Zoning</u> <u>Ordinance</u> (AR Districts only).
- 10. A copy of a minimum two year maintenance contract if a communal water and/or sewage disposal system is to be maintained by an entity other than the <u>Loudoun County Sanitation Authority (Loudoun Water)</u> (AR Districts only).
- D. Standard Process

The following process is required for plat applications ("Plats") that are based on construction plans and profiles or site plans ("Plans"). It does not apply to any easement, dedication, boundary line adjustment, family subdivision, subdivision waiver, preliminary/record plat application that does not involve construction plans, or other plats as approved by the Director. Any application that fails to provide all the information required in this section will be returned without review and, upon resubmission, placed after all other applications that have been submitted prior to such resubmission.

- 1. The first submission of the Plat shall not be submitted prior to the second submission of the Plans. The first submission of the Plat shall address, as appropriate, all of the County's first review comments on the Plans. The first submission of the Plat shall be submitted without Legal Documents, except that the Deed of Subdivision, Dedication and Easements may be submitted.
- 2. The second submission of the Plat shall address all of the first submission Plat referral comments. The second submission of the Plat shall be accompanied by the submission of the Legal Documents which shall have been prepared based upon the second submission Plat and in conformance with any applicable proffers or conditions. For the purpose of this process, Legal Documents shall include, as applicable, Deed of Subdivision, Dedication and Easements, Deed of Open Space Easement, ADU Covenants, and Declaration of Covenants or Supplementary Declaration of Covenants. Legal Documents shall be forwarded by the project planner to the Office of the County Attorney for review. Review comments regarding the Legal Documents shall be provided to the project planner by the Office of the County Attorney. The review comments associated with the second submission Plat and first submission Legal Documents will be forwarded to the applicant upon completion.

- 3. The third submission of the Plat and second submission of the Legal Documents shall address all of the second submission Plat and first submission Legal Documents referral comments. The second and all subsequent submissions of the Legal Documents shall each be highlighted by the document preparer to reflect all revisions to the immediately prior submission. It is also encouraged that, where appropriate, Plats be highlighted to reflect all revisions to the plat. The third submission Plat and second submission Legal Documents shall not be submitted until the Plans upon which the Plat is based have been approved and the bond amount approved. A copy of the County staff bond estimate approval letter shall be submitted with the third submission of the plat (second submission of Legal Documents).
- 4. Staff will complete review of the third submission Plat and second submission Legal Documents within 3 weeks and forward comments on both Plat and documents within 5 working days after receipt of comments from the Office of the County Attorney.
- 5. Required associated documents such as Performance Agreements and Bonds and Cash Contribution Agreements, shall be submitted separately. These documents should be submitted at least four weeks prior to the anticipated Plat approval. The review of these documents will follow the current procedures and timelines. In any event, bonding documents, when required, must be posted and accepted prior to formal Plat Approval.
- 6. After review of the third submission Plat and second submission Legal Documents, both plat and documents should be able to be approved or near approval. However, if the applicant fails to properly address previous comments such that a subsequent submission of either the plat or the documents is necessary, subsequent submissions will be reviewed after all other applications that have been submitted prior to such subsequent submission.
- 7. The primary review agencies may include <u>Loudoun Water</u> and the Loudoun County Health Department (LCHD). The County does not exercise direct control over Loudoun Water, which is a separate Authority, or LCHD, which is a State Agency, and cannot therefore commit Loudoun Water or LCHD to any time line or comment period. Regardless of whether or not the County has received Loudoun Water or LCHD comments, County comments will be forwarded as soon as they are completed. Loudoun Water and LCHD referral comments will not be required prior to resubmission of an Application (but will ultimately need to be addressed in order to obtain final approval).

8.106 CONSTRUCTION PLANS AND PROFILES (CPAP)

- A. The construction plans and profiles shall be prepared by a Licensed Professional Engineer (P.E.) or Surveyor. The plans shall contain the following data, legibly drawn, on sheets of 24 inches by 36 inches in size, with appropriate match lines (if necessary).
 - 1. The following shall be included on the Cover Sheet of the plan set:
 - a. Title "Construction Plans and Profiles".
 - b. Name and address of the owner of record.
 - c. Name and address of the Applicants.
 - d. Name of the Licensed Professional Engineer (P.E.) or Surveyor who prepared the plan.
 - e. Sheet Index, including the number of sheets in the plan.
 - f. MCPI (PIN) Reference. (See 8.101)
 - g. Vicinity Map. (See 8.101)
 - h. Approval Block. (See 8.101)
 - i. Revision Block. (See 8.101)
 - j. Original Plan Date.
 - k. Source of Title. (See 8.101)

<u>1.</u> Source of Floodplain Note. (See 8.101)

m. Archaeology Notes. (See 8.101)

- 2. The following shall be included on each sheet of the plan set:
 - a. Scale. (See 8.101)
 - b. North arrow, if applicable.
 - c. Original Plan Date.
 - d. Proposed Name of Subdivision or Development. (See 8.101)
 - e. Revision Block. (See 8.101).

- f. Election District and Loudoun County, Virginia, within the Title Block.
- g. Seal and Signature (See 8.101), if applicable.
- 3. Zoning District and Jurisdictional Boundaries. (See 8.101)
- 4. Zoning Requirements. (See 8.101)
- 5. Associated Land Development Application Information. (See 8.101). Proffers, conditions of approval, or modifications associated with rezoning, special exception, and variance applications shall be included either as part of the plans or as a separate document.
- 6. Key map, if more than three plan and profile sheets are required.
- 7. Note(s) on plans where land or facilities are to be dedicated to and held in perpetuity by a lot-owner's association, condominium association, or similar entity.
- 8. Proposed and existing property lines and Adjoining Property Information (See 8.101) and use.
- 9. Roads shall include approved and/or reserved road names and sign locations per the <u>Codified Ordinances</u> of Loudoun County.
- 10. Numbered archaeological sites and structures; <u>human</u> cemeteries, <u>burial</u> <u>grounds</u>, <u>and graves</u>; and historic landmarks on the site to be preserved, as identified by archaeological surveys performed for the property.
- 11. Pollution sources (including without limitation dump sites, drainfields, buried fuel tanks, hazardous material storage facilities, solid and liquid disposal sites, etc.), wells, and springs that are known or as identified in LOGIS.
- 12. Existing open space and conservation easements with deed book and page number or instrument number. Other known existing easements with deed book and page number or instrument number.
- 13. Environmental Impact (Overlay) Districts, as established in the <u>Zoning</u> <u>Ordinance</u>, on the grading plan and the erosion and sediment control plan.
- 14. The boundaries of the Scenic Creek Valley Buffer and other required environmental buffers.
- 15. Topography. (See 8.101)

- 16. Very Steep Slope Areas and Moderately Steep Slope Areas, as defined and regulated in the <u>Zoning Ordinance</u>, on the grading plan and the erosion and sediment control plan.
- 17. Location, type, and dimensions of vehicular ingress and egress to the site, and clear zones as applicable.
- 18. Design speed for all proposed roadways.
- 19. Roadway and transportation facilities shall be designed in accordance with Chapter 4 of this manual. Roadway and utility improvement plans are to consist of plan and profile, drawn to a minimum scale of 1 inch to not more than 50 feet horizontally and 1 inch to not more than 5 feet vertically. The plan portion of the roadway plan shall show the location of roads, lots, and storm drainage, sanitary sewer, and water distribution systems. The profile portion of the roadway plan shall show the existing and proposed roadway improvements, and sanitary sewer, water distribution, and storm drainage systems. Details of standard road sections, curb and gutter type, and miscellaneous construction items shall appear within the plan, as well as any construction notes pertaining to the proposed improvements. Roadway plans shall include the following:
 - a. Average Daily Trip (ADT) projections for all existing and proposed roadways.
 - b. Stations indicated every 100 feet on centerline; at points of curvature, points of intersection and points of tangency; at centerline of entrances and intersections, at subdivision or section limits, and at turnaround radius points.
 - c. When a proposed roadway or entrance intersects with an existing roadway, the centerline profile of the existing roadway shall be shown for adequate sight distance, to the right and the left of the proposed connection, per VDOT standards. Dimensions for sight lines and sight distances shall be shown at entrances onto the road system and for intersections on both plan and profiles. Where the line of sight departs the established right-of-way or private access easement, a separate sight distance easement shall be provided. The profile along the line of sight shall be shown reflecting existing and proposed grades as well as any obstacles that may obstruct the driver's vision (e.g., plantings, utility structures, entrance features, fences, etc.).
 - d. The centerline profile shall extend 300 feet beyond the property line or boundary on roadways that may provide access to adjoining property.

- e. A grade line of road construction to include:
 - i. Percent of grade.
 - ii. Elevations at the beginning and the end of all vertical curves.
 - iii. The length of vertical curves with sight distances and stations of vertical points of intersection.
 - iv. Elevations computed every 50 feet on all tangent sections and every 25 feet on vertical curves.
 - v. Elevations at:
 - a) centerline intersections of roads.
 - b) road centerline intersections with the boundaries of a subdivision.
 - c) curb returns.
 - d) culvert and storm sewer crossings.
 - e) curb inlets.
 - f) beginning and ending of superelevation transition sections.
 - vi. The point of finished grade on typical section (i.e., centerline, top of curb, etc.).
- f. The locations of curb-cut ramps for the handicapped.
- g. The proposed location of multiple mailbox groupings and other uses requiring a vehicle staging area.
- h. Proposed roadside ditches indicated in the profile where the ditch varies from running parallel to the road centerline.
- i. The horizontal and vertical location of proposed and existing culverts, storm sewer crossings, sanitary sewer crossings, and utility crossings shown on roadway profiles.
- j. Utility easements and proposed relocations.
- k. When a proposed roadway parallels or is located near an existing stream or a natural or manmade open channel, profiles of the top of

the bank of the stream, computed water elevations and invert (or flowline) of the stream or natural or manmade open channel shall be provided. The relationship of the proposed roadway grade to existing profiles of the stream or natural or manmade open channel shall be shown. Road construction shall not encroach on the approved floodplain limit of the stream, except as permitted by applicable floodplain requirements of Chapter 5 of this manual and the <u>Zoning Ordinance</u>.

- 1. Grade profiles of curb and gutter construction in cul-de-sacs are to be computed along the top elevation of the face of the curb starting at the beginning of the curb return, following the face of curb around the cul-de-sac and thence to the end of return or curve on the opposite side of the cul-de-sac:
 - i. Grade ties of the road, before entering the cul-de-sac grade, shall be shown on each end of the cul-de-sac grade profile.
 - ii. Other acceptable methods may be used subject to the approval of the Director and the Virginia Department of Transportation.
- m. If a difference exists in elevations on proposed curb grades, curb elevations showing top of curb right and top of curb left shall be shown on the plans.
- n. Landings shown on plans and profiles.
- o. Driveway locations (both individual and common).
- p. Traffic control signage and structures (e.g., road delineators, barricades, and stop signs), and road signs, shall be shown on the plans. Signage shall conform to VDOT requirements.
- q. Right-of-way and easements shall be identified.
- r. Typical roadway cross sections shall be provided on the plans.
- s. Sidewalks, trails, and proffered pedestrian improvements shall be shown and maintenance responsibilities shall be indicated.
- t. For informational purposes only, for road sections consisting of more than two lanes, illustrative pavement striping indicating the travelways, tapers, turn lanes, directional markings (e.g., turn and through arrows, solid and dashed line delineators, etc.), and pedestrian crosswalks shall be provided. VDOT may require a separate application for permitting purposes.

- 20. Utility Plan and Profile Standards: The profile of the utilities is required for storm drainage, sanitary sewer, and water distribution systems. Utility profiles are to be drawn to a scale of 1 inch to not more than 50 feet horizontally and 1 inch to not more than 5 feet vertically. The profiles shall show the following:
 - a. Public water and sewer profiles shall conform with the Loudoun Water Design Manual or applicable water and sewer standards if outside the Loudoun Water service area.
 - b. Storm Sewer and Culvert profiles in accordance with Chapter 5 of this manual.
- 21. The following standard notes shall appear on all construction plans:
 - a. "Sub-base depth is based on a CBR value of 4, which may be revised once soil tests of subgrade are performed."

OR

"Sub-base depth is based on a CBR value of _____ based on an actual determination per soils tests."

- b. "A smoothing grade shall be maintained from the centerline of the existing road to the curb and gutter, to preclude the forming of false gutters and/or the ponding of any water on the roadway."
- c. "Standard guardrail and handrail shall be installed at those locations as designated during final field inspections by Loudoun County or VDOT."
- d. "The approval of these plans shall in no way relieve the owner of complying with other applicable local, State and Federal requirements."
- 22. Grading and drainage plans, drawn to a scale of 1 inch to not more than 50 feet. The grading plan shall include the following:
 - a. Proposed grading shown by proposed contour lines, supplemented with spot elevations.
 - b. Storm sewers and culverts and their sizes and top and invert elevations.
 - c. Limits of clearing and grading, areas of tree canopy and vegetation preserved or conserved as part of a proffer or condition of approval

or to meet BMP requirements, floodplains, wetlands, conservation easements, or other easements, if known, that restrict grading.

- d. Natural and manmade open channels and swales.
- e. Proposed easements.
- f. Proposed roadway layout.
- g. Proposed lot layout and information, as follows:
 - i. For residential lots less than one acre in size, all Grading Criteria in Chapter 5 of this manual, including spot elevations for the proposed basement floor, first floor, garage slab, and finished grade at the building corners.
 - ii. For residential lots one acre or greater in size:
 - a) The house, driveway, drainfield, and well location, the limits of clearing and grading, and the proposed grading for each lot.

OR

b) The potential limits of clearing and grading and a typical detail for on-lot erosion and sediment control applicable to all lots.

If any part of a lot is located within the Mountainside Development Overlay District and/or Limestone Overlay District, or contains areas of steep slopes, the requirements of subsection a) shall apply.

- h. Retaining walls with the elevations proposed for the top and bottom of the wall.
- 23. A stormwater management plan in accordance with Chapter 1096 of the <u>Codified Ordinances</u> and Chapter 5 of this manual.
- 24. Storm drainage calculations, in accordance with Chapter 5 of this manual, and drainage area map showing individual and cumulative drainage area contributing to each point of concentration.
- 25. Watercourses and names, if any, and floodplain easement(s) in accordance with Chapter 5 of this Manual. Wetlands data as follows:

- a. Potential jurisdictional waters and wetlands as identified by a consultant wetland delineation performed in accordance with Army Corps of Engineers (Corps) standards shall be depicted on the plan.
- b. A note referencing the source of the wetland information depicted on the plan (including the Corps Jurisdictional Determination number and date, if it exists) and indicating that all applicable state and federal permits shall be obtained prior to disturbances within jurisdictional waters and wetlands shall be provided on the plan.
- 26. A soils map and certification in accordance with Chapter 6 of this manual.
- 27. An erosion and sediment control plan in accordance with the <u>Virginia</u> <u>Erosion and Sediment Control Handbook</u> and Chapter 7 of this manual.
- 28. A Tree Conservation and Landscape Plan, in accordance with the <u>Zoning</u> <u>Ordinance</u> and Chapter 7 of this manual.
- 29. Lighting plans, in accordance with Chapter 7 of this manual.
- 30. Regulatory signage and street name signs.
- 31. For single family attached developments, the following shall be shown:
 - a. Location, type, size, and height of fencing, screening, and retaining walls.
 - b. Parking, loading spaces, walkways, and bike paths, indicating type of surfacing, size, angle of stalls, width of aisles, and number of parking and loading spaces provided.
 - c. The number of floors, floor area, height, exterior dimensions, location, and proposed use of each building.
- 32. Designation of ADU units in accordance with the <u>Zoning Ordinance</u>.
- 33. Dimensions required to demonstrate compliance with regulations, proffers, and conditions.
- B. Items to Accompany Construction Plans and Profiles
 - 1. The following items shall accompany the initial submission of construction plans and profiles:
 - a. Fee Check. (See 8.101)
 - b. Land Development Application Form. (See 8.101)

- c. Bond estimate as required by Section 8.304of this Chapter.
- d. If the construction plans and profiles are being submitted pursuant to Section 1243.10(1) of the <u>Land Subdivision and Development</u> <u>Ordinance</u>, a copy of the first submission comments for the corresponding Preliminary Plat of Subdivision.
- e. If a stormwater management plan is required pursuant to Chapter 1096 of the <u>Codified Ordinances</u>, an unexecuted copy of the deed, and if available a plat, establishing long-term maintenance responsibility and necessary easements for storm drainage and stormwater management purposes.
- <u>f.</u> A completed <u>Proffer/Condition Status Update form</u>, as applicable.
- g. If not previously provided, an archaeological survey report prepared in accordance with Chapter 7 of this manual. If human cemeteries, burial grounds, or graves are identified, an archaeological delineation prepared in accordance with Chapter 7.
- 2. The following items shall be required prior to construction plans and profiles approval:
 - a. A geotechnical study in accordance with the requirements Chapter 6 of this manual.
 - **b.** If not provided with a previous Preliminary Plat of Subdivision: a letter from the Virginia Department of Conservation and Recreation, Division of Natural Heritage identifying occurrences of natural heritage resources on the property such as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations; and if an endangered and threatened species survey has been completed for the property, a copy of the report shall also be submitted.
 - c. If not previously provided, a digital file of the boundary of any cemetery, burial ground, or grave prepared in accordance with the Office of Mapping Digital Data Submission Guidelines for Cemeteries.

8.107 SITE PLANS (STPL) AND RURAL ECONOMY SITE PLANS (REST)

Rural Economy Site Plans shall meet all the requirements of Section 8.107 except as modified as a result of a pre-submission meeting pursuant to Section 8.000 of this manual.

- A. The site plan shall be sealed by a Licensed Professional Engineer (P.E.) or Surveyor. The site plan shall contain the following applicable data, legibly drawn, on sheets of 24 inches by 36 inches in size, with appropriate matchlines, (as necessary).
 - 1. The following shall be included on the Cover Sheet of the plan set:
 - a. The Title "Site Plan".
 - b. Name and address of the owner of record.
 - c. Name and address of the Applicant.
 - d. Name of the Licensed Professional Engineer (P.E.) or Surveyor who prepared the plan.
 - e. Sheet Index, including the number of sheets in the plan.
 - f. MCPI (PIN) Reference. (See 8.101)
 - g. Vicinity Map. (See 8.101)
 - h. Approval Block. (See 8.101)
 - i. Revision Block. (See 8.101)
 - j. Original Plan Date.
 - k. Source of Title. (See 8.101)
 - 1. Source of Floodplain Note. (See 8.101)

m. Archaeology Notes. (See 8.101)

- 2. The following shall be included on each sheet of the plan set:
 - a. Scale. (See 8.101)
 - b. North Arrow, if applicable.
 - c. Proposed Name of Subdivision or Development. (See 8.101)

- d. Revision Block. (See 8.101)
- e. Original Plan Date.
- f. Election District and Loudoun County, Virginia, within the Title Block.
- g. Seal and Signature (See 8.101), if applicable.
- 3. Zoning District and Jurisdictional Boundaries. (See 8.101)
- 4. Zoning Requirements. (See 8.101)
- 5. Associated Land Development Application Information. (See 8.101). Proffers, conditions of approval, and modifications associated with rezoning, special exception, and variance applications shall be included either as part of the plans or as a separate document.
- 6. The number of floors, floor area, height, exterior dimensions, location, and proposed use of each building.
- 7. Dimensions required to demonstrate compliance with regulations, proffers, and conditions.
- 8. Note(s) on plans where land or facilities are to be dedicated to, and held in perpetuity by, a lot-owner's association, condominium association, or similar entity.
- 9. Property lines, Adjoining Property Information (See 8.101), and use.
- 10. Roads shall include approved and/or reserved street names and sign locations per the <u>Codified Ordinances</u> of Loudoun County.
- 11. Numbered archaeological sites and structures, <u>human</u> cemeteries, <u>burial</u> <u>grounds</u>, <u>and graves</u>; and historic landmarks on the site to be preserved, as identified by archaeological surveys performed for the property.
- 12. Pollution sources (including without limitation dump sites, drainfields, buried fuel tanks, hazardous material storage facilities, solid and liquid disposal sites, etc.), wells, and springs that are known or as identified in LOGIS.
- 13. Existing open space and conservation easements with deed book and page number or instrument number. Other known existing easements with deed book and page number or instrument number.

- 14. Environmental Impact (Overlay) Districts, as established in the <u>Zoning</u> Ordinance, on the grading plan and the erosion and sediment control plan.
- 15. The boundaries of the Scenic Creek Valley Buffer and other required environmental buffers.
- 16. Topography. (See 8.101)
- 17. Very Steep Slope Areas and Moderately Steep Slope Areas, as defined and regulated in the <u>Zoning Ordinance</u>, on the grading plan and the erosion and sediment control plan.
- 18. Location, type, and dimensions of vehicular ingress and egress to the site, and clear zones as applicable.
- 19. Design speed for all proposed roadways.
- 20. Roadway and transportation facilities shall be designed in accordance with Chapter 4 of this manual. If applicable, roadway plans are to consist of plan and profile, drawn to a minimum scale of 1 inch to not more than 50 feet horizontally and 1 inch to not more than 5 feet vertically. The plan portion of the roadway plan shall show the location of roads, lots, and storm drainage, sanitary sewer, and water distribution systems. The profile portion of the roadway plan shall show the existing and proposed roadway improvements, and sanitary sewer, water distribution, and storm drainage systems. Details of standard road sections, curb and gutter type, and miscellaneous construction items shall appear within the plan, as well as any construction notes pertaining to the proposed improvements. Roadway plans shall include the following:
 - a. Average Daily Trip (ADT) projections for all existing and proposed roadways.
 - b. Stations indicated every 100 feet on centerline; at points of curvature, points of intersection and points of tangency; at centerline of entrances and intersections, at subdivision of section limits, and at turnaround radius points.
 - c. When a proposed roadway or entrance intersects with an existing roadway, the centerline profile of the existing roadway shall be shown for adequate sight distance, to the right and the left of the proposed connection, per VDOT standards. Dimensions for sight lines and sight distances shall be shown at entrances onto the road system and for intersections on both plan and profiles. Where the line of sight departs the established right-of-way or private roadway easement, a separate sight distance easement shall be provided. The profile along the line of sight shall be shown reflecting existing and

proposed grades as well as any obstacles that may obstruct the driver's vision (e.g., plantings, utility structures, entrance features, fences, etc.)

- d. The centerline profile shall extend 300 feet beyond the property line or boundary on roadways that may provide access to adjoining property.
- e. A grade line of road construction to include:
 - i. Percent of grade.
 - ii. Elevations at the beginning and the end of all vertical curves.
 - iii. The length of vertical curves with sight distances and stations of vertical points of intersection.
 - iv. Elevations computed every 50 feet on all tangent sections and every 25 feet on vertical curves.
 - v. Elevations at:
 - a) centerline intersections of roads
 - b) road centerline intersections with the boundaries of a subdivision
 - c) curb returns
 - d) culvert and storm sewer crossings
 - e) curb inlets
 - f) beginning and ending of super elevation transition sections
 - vi. The point of finished grade on typical section (i.e., centerline, top of curb, etc.)
- f. The locations of curb-cut ramps for the handicapped.
- g. The proposed location on of multiple mailbox groupings and other uses requiring a vehicle staging area.
- h. Proposed roadside ditches indicated in the profile where the ditch varies from running parallel to the road centerline.

- i. The horizontal and vertical location of proposed and existing culverts, storm sewer crossings, sanitary sewer crossings, and utility crossings shown on roadway profiles.
- j. Utility easements and proposed relocations.
- k. When a proposed roadway parallels or is located near an existing stream or a natural or manmade open channel, profiles of the top of the bank of the stream, computed water elevations and invert (or flowline) of the stream or natural or manmade open channel shall be provided. The relationship of the proposed roadway grade to existing profiles of the stream or natural or manmade open channel shall be shown. Road construction shall not encroach on the approved floodplain limit of the stream, except as permitted by applicable floodplain requirements of Chapter 5 of this manual and the <u>Zoning Ordinance</u>.
- 1. Grade profiles of curb and gutter construction in cul-de-sacs are to be computed along the top elevation of the face of the curb starting at the beginning of the curb return, following the face of curb around the cul-de-sac and thence to the end of return or curve on the opposite side of the cul-de-sac:
 - i. Grade ties of the road, before entering the cul-de-sac grade, shall be shown on each end of the cul-de-sac grade profile.
 - ii. Other acceptable methods may be used subject to the approval of the Director and the Virginia Department of Transportation.
- m. If a difference exists in elevations on proposed curb grades, curb elevations showing top of curb right and top of curb left shall be shown on the plans.
- n. Landings shown on plans and profiles.
- o. Driveway locations (both individual and common).
- p. Traffic control signage and structures (e.g., road delineators, barricades, and stop signs), and road signs, shall be shown on the plans. Signage shall conform to VDOT requirements.
- q. Right-of-way and easements shall be identified.
- r. Typical roadway cross sections shall be provided on the plans.

- s. Sidewalks, trails, and proffered pedestrian improvements shall be shown and maintenance responsibilities shall be indicated.
- t. For informational purposes only, for road sections consisting of more than two lanes, illustrative pavement striping indicating the travelways, tapers, turn lanes and directional markings (e.g., turn and through arrows, solid and dashed line delineators, etc.), and pedestrian crosswalks shall be provided. VDOT may require a separate application for permitting purposes.
- 21. Utility Plan and Profile Standards: The profile of the utilities is required for storm drainage, sanitary sewer, and water distribution systems. Utility profiles are to be drawn to a scale of 1 inch to not more than 50 feet horizontally and 1 inch to not more than 5 feet vertically. The profiles shall show the following:
 - a. Public water and sewer profiles shall conform with the Loudoun Water Design Manual or applicable water and sewer standards if outside the Loudoun Water service area.
 - b. Storm Sewer and Culvert profiles in accordance with Chapter 5 of this manual.
- 22. The following standard notes shall appear on all site plans:
 - a. "Sub-base depth is based on a CBR value of 4, which may be revised once soil tests of subgrade are performed."

OR

"Sub-base depth is based on a CBR value of _____ based on an actual determination per soils tests."

- b. "A smoothing grade shall be maintained from the centerline of the existing road to the curb and gutter, to preclude the forming of false gutters and/or the ponding of any water on the roadway."
- c. "Standard guardrail and handrail shall be installed at those locations as designated during final field inspections by Loudoun County or VDOT."
- d. "The approval of these plans shall in no way relieve the owner of complying with other applicable local, State and Federal requirements."

- 23. Grading and drainage plans, drawn to a scale of 1 inch to not more than 50 feet and showing the proposed roadways, structures, buildings, and site improvements. The grading plan shall include the following:
 - a. Proposed grading shown by proposed contour lines, supplemented with spot elevations.
 - b. Storm sewers and culverts and their sizes and top and invert elevations.
 - c. Limits of clearing and grading, areas of tree canopy and vegetation preserved or conserved as part of a proffer or condition of approval or to meet BMP requirements, floodplains, wetlands, conservation easements, or other easements, if known, that restrict grading.
 - d. Open channels and swales.
 - e. Proposed easements.
 - f. Elevations for the proposed basement floor, first floor, and garage slab for all buildings. In addition, spot elevations of the finished grade at the building corners shall be shown.
 - g. Retaining walls with the elevations proposed for the top and bottom of the wall.
- 24. A stormwater management plan in accordance with Chapter 1096 of the <u>Codified Ordinances</u> and Chapter 5 of this manual.
- 25. Storm drainage calculations, in accordance with Chapter 5 of this manual, and drainage area map showing individual and cumulative drainage area contributing to each point of concentration.
- 26. Watercourses and names, if any, and floodplain easement(s) in accordance with Chapter 5 of this manual. Wetlands data as follows:
 - a. Potential jurisdictional waters wetlands as identified by a consultant wetland delineation performed in accordance with Army Corps of Engineers (Corps) standards shall be depicted on the plan.
 - b. A note referencing the source of the wetland information depicted on the plan (including the Corps Jurisdictional Determination number and date, if it exists) and indicating that all applicable state and federal permits shall be obtained prior to disturbances within jurisdictional waters and wetlands shall be provided on the plan.
- 27. A soils map and certification in accordance with Chapter 6 of this manual.

- 28. An erosion and sediment control plan in accordance with the <u>Virginia</u> <u>Erosion and Sediment Control Handbook</u> and Chapter 7 of this manual.
- 29. A Tree Conservation and Landscape Plan, in accordance with the <u>Zoning</u> <u>Ordinance</u> and Chapter 7 of this manual.
- 30. Lighting plans in accordance with Chapter 7 of this manual.
- 31. Regulatory signage and street name signs.
- 32. Location, type, size, and height of fencing, screening, and retaining walls.
- 33. Parking, loading spaces, walkways, and bike paths, indicating type of surfacing, size, angle of stalls, width of aisles, and number of parking and loading spaces provided.
- 34. Designation of ADU units in accordance with <u>Zoning Ordinance</u>.
- B. Documents to Accompany Site Plans
 - 1. The following items shall accompany the initial submission of a site plan:
 - a. Fee Check. (See 8.101)
 - b. Land Development Application Form. (See 8.101)
 - c. Bond estimate as required by Section 8.304 of this Chapter.
 - d. If a stormwater management plan is required pursuant to Chapter 1096 of the <u>Codified Ordinances</u>, an unexecuted copy of the deed, and if available a plat, establishing long-term maintenance responsibility and necessary easements for storm drainage and stormwater management purposes.
 - e. A completed <u>Proffer/Condition Status Update form</u>, if applicable.
 - f.If not previously provided, an archaeological survey report preparedin accordance with Chapter 7 of this manual. If human cemeteries,burial grounds, or graves are identified, an archaeologicaldelineation prepared in accordance with Chapter 7.
 - 2. The following items shall be required prior to site plan approval:
 - a. A letter signed by the Health Director evidencing conformance with applicable requirements of the County Health Department.

- b. Performance Agreements and Bonds, as required by Section 8.300 of this Chapter shall be submitted for review. Such Performance Agreements and Bonds shall be approved by the Board of Supervisors or designee prior to site plan approval.
- c. A geotechnical study in accordance with the requirements of Chapter 6 of this Manual.
- d. An approved and recorded:
 - i. Easement Plat (and deed) prepared in accordance with this Chapter if easements are shown on the site plan. Easement plats shall not include dedication of property to the County for public street purposes.
 - ii. Dedication/Vacation Plat (and deed) prepared in accordance with this Chapter if dedication of property to the County for public street purposes, or vacation of property previously dedicated to the County for public street purposes, is shown on the site plan. This plat may include easements.
 - iii. Declaration of protective or restrictive covenants, if applicable.
- e. If not included in the deed:
 - i. A Deed of Release if there are deed of trust trustees who are not parties and signatories to the deed; or
 - ii. A letter or other documentation from the owner which certifies that there is no deed of trust lien on the property.
- f. If not provided with a previous Preliminary Plat of Subdivision or Construction Plan and Profile: a letter from the Virginia Department of Conservation and Recreation, Division of Natural Heritage identifying occurrences of natural heritage resources on the property such as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations; and if an endangered and threatened species survey has been completed for the property, a copy of the report shall also be submitted.
- g. <u>If not previously provided, a digital file of the boundary of any</u> <u>cemetery, burial ground, or grave prepared in accordance with the</u> <u>Office of Mapping Digital Data Submission Guidelines for</u> <u>Cemeteries.</u>

8.108 RECORD DRAWINGS

A. Filing Requirements:

Upon satisfactory completion of the installation of the required improvements shown on the approved site plan or construction plans and profiles, whichever is applicable, the developer shall submit to the Director two (2) copies of the completed record drawings, prepared and signed by a Licensed Professional Engineer (P.E.) or Surveyor, of such plans. Such record drawings shall be submitted at least two (2) weeks prior to the anticipated date of occupancy of any building for site plan applications. In the case of construction plans and profiles, the record drawings shall accompany the request for bond release in accordance with Section 8.300 of this manual or be submitted prior to record plat approval per Section 8.305 H of this manual, whichever is applicable. Such record drawings shall be reviewed for conformance with the approved plans and the ordinances and regulations of County and State agencies.

B. Record Drawings

The term "record drawings" shall be deemed to include what is sometimes referred to as "as built" drawings and shall be prepared in accordance with this Subparagraph. The following items shall be surveyed to determine actual field conditions, and the approved site plans or construction plans and profiles as annotated to reflect such actual field conditions shall constitute the record drawings.

- 1. Storm Sewer Systems
 - a. The general location of drainage structure(s) within their easements shall be observed and noted if the structure is outside the easement. Included in this location requirement are inlet or outlet end sections. Manholes wherever located shall have at least two measurements to permanent physical features provided.
 - b. The structure top and pipe invert elevations, including end sections, shall be provided.
 - c. Pipe size and the percent grade between inverts from structure to structure shall be noted.
 - d. Spot elevations of the invert of manmade open channels shall be provided on 100-foot centers.
 - 2. Pavement
 - a. The width of pavement shall be verified once for each width and at transitions.

- 3. Stormwater Management
 - a. The elevations and lengths of dams and spillways shall be noted.
 - b. The width of dams and spillways shall be noted.
 - c. Stand pipe structure sizes and heights shall be noted.
 - d. The volume of the impoundment area shall be calculated.
- 4. Buildings Shown on Site Plan
 - a. Exterior dimensions of buildings shall be noted.
 - b. Setback dimensions to buildings shall be noted.
- C. Checklist

The developer submitting the record drawings shall also submit a letter with the record drawings certifying that the following items have been inspected and found to be in general conformance with the approved construction plans and profiles or site plans, as applicable.

- 1. Curb and Gutter. Confirm that the curbs are the proper type.
- 2. Sidewalk/Trail. Confirm that the sidewalk/trail is correctly situated with relation to the rights-of-ways or easement. Confirm that the sidewalk/trail maintenance responsibilities have been adequately provided for and specify the entity or entities that will bear such responsibilities. Verify that the construction material used is as approved.
- 3. Drainage. Confirm that the drainage patterns have been established in conformance with the grading plans. Confirm that slopes and swales are properly located and graded. Confirm that positive drainage exists.
- 4. Pavement. Provide a copy of the approved pavement design. Confirm that all pavement was placed in accordance with the approved pavement design. Confirm that all material was compacted to required standards. Provide a copy of the approved striping and signage plan.
- 5. Visibility triangle, as required by the <u>Zoning Ordinance</u>, and clear zones. Confirm that there are no encroachments.
- 6. Utility placement within roads. Provide a statement that all utilities located within roads are within recorded easements, or if in public right-of-way, located as approved and per the <u>VDOT permit manual</u>.

- 7. Landscaping and Buffering
 - a. Developer certifies that the tree conservation and landscaping are in general conformance as to location with the approved Tree Conservation and Landscape Plan. Confirm plantings conform to approved quantities for eachcorrect category (large deciduouscanopy, small deciduousunderstory, shrub, or evergreen) in required quantities. If plantings do not conform to approved quantities for each category, a redline Tree Conservation and Landscape Plan identifying all changes also shall be included in the Record Drawingsubmitted for review and approval.

11/12

ZOAM-2017-0005 and DOAM-2018-0001 Transition Rules Board of Supervisors Business Meeting – November 21, 2019

Transition Rules:

- (1) Defined Terms: For the purpose of these Transition Rules the following definitions shall apply unless otherwise stated:
 - (a) "Plan of Development" shall mean any variance (VARI), preliminary/record subdivision plat (SBPR), record plat (SBRD), construction plans and profiles (CPAP/CPAR/CRCP), final development plan (FIDP), site plan (STPL/REST/STMP), and site plan amendment (SPAM).
 - (b) The "Zoning Ordinance" shall mean the provisions of the <u>Revised 1993 Loudoun</u> <u>County Zoning Ordinance</u>.
 - (c) The "FSM" shall mean the provisions of the Loudoun County Facilities Standards <u>Manual</u>.
 - (d) "Zoning Administrator" shall mean the Zoning Administrator of Loudoun County.
 - (e) "Effective Date" shall mean January 1, 2020.
- (2) For the purposes of these Transition Rules, "Pending Plan" shall mean any Plan of Development which, prior to the Effective Date, (i) has been officially accepted by the County and has not become an Inactive Application (as defined in the Zoning Ordinance), and (ii) has not been withdrawn, and (iii) has not received a final decision, and (iv) has not expired or otherwise become void or invalid pursuant to applicable law, and (v) since the date of its official acceptance has been and continues to be diligently pursued.
- (3) For the purposes of determining whether a Pending Plan is being "diligently pursued" as required herein, the following shall apply, without limitation:
 - (a) If corrections to a plat, plan, or application are or have been deemed necessary by the reviewing authority, a plat, plan, or application containing the requested revisions shall be or shall have been resubmitted within six (6) Months of notification of such needed corrections.

Subsequent resubmission of such filed plans may be approved so long as revisions to such plans do not create any new or additional non-compliance with the Zoning Ordinance or FSM.

(b) If applicable, all required executed performance agreements and sureties, deposits, easements and fees shall be submitted within six (6) months of the date of the approval letter for construction plans and profiles and site plans or within twelve (12) months of the Effective Date, whichever is later.

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Attachment 3

ZOAM-2017-0005 and DOAM-2018-0001 Transition Rules Board of Supervisors Business Meeting – November 21, 2019

- (c) If any of the foregoing timeframes for a resubmission commenced prior to the Effective Date, the applicable timeframe shall be deemed to have commenced on the Effective Date.
- (d) The above time limitations may be extended only by the Board of Supervisors and only when the applicant can demonstrate that the said timeframes cannot be met due to the acts or omissions of Loudoun County or the Commonwealth of Virginia beyond applicant's control. Such extensions may be considered only when the applicant, at least thirty (30) days prior to the expiration of the time limitation, notifies the Zoning Administrator in writing of the acts or omissions causing applicant's inability to meet such time limitations.
- (4) As determined by the Zoning Administrator, all Plans of Development that qualify as Pending Plans may continue to be processed in accordance with those provisions of the Zoning Ordinance and FSM that are the subject of ZOAM-2017-0005 and DOAM-2018-0001 that were in effect immediately prior to the adoption of ZOAM-2017-0005 and DOAM-2018-0001.

BOARD OF SUPERVISORS OF LOUDOUN COUNTY

RESOLUTION OF INTENT TO AMEND THE <u>REVISED 1993 LOUDOUN COUNTY</u> <u>ZONING ORDINANCE</u> AND THE <u>LOUDOUN COUNTY FACILITIES STANDARDS</u> <u>MANUAL</u> IN REGARD TO SETBACKS, BUFFERS, SCREENING, AND RELATED LANDSCAPING

WHEREAS, at the March 22, 2018 Board of Supervisors Business Meeting, the Board of Supervisors adopted a Resolution of Intent to Amend ("ROIA") the Zoning Ordinance and FSM in regard to buffer yard, screening, landscaping, and setback requirements; and

WHEREAS, at the December 4, 2018 Board of Supervisors Business Meeting, the Board of Supervisors approved the 2019 ZOAM Work Program, which included amendments to the Zoning Ordinance to address buffers, setbacks, and related landscaping; and

WHEREAS, the Board of Supervisors wishes to revise the previously adopted ROIA to add amendments to additional sections of the Zoning Ordinance that staff believes are necessary to achieve full intent of the ROIA.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Supervisors states its intention to amend the <u>Revised 1993 Loudoun County Zoning Ordinance</u> as follows:

- Amend Article 1 to establish new, and clarify, revise, and/or delete existing, regulations in regard to the administration and interpretation of setbacks and buffer yards in all zoning districts.
- Amend Articles 2, 3, and 4 to establish new, and clarify, revise, and/or delete existing, zoning district requirements to facilitate the relocation and consolidation of setback, buffering, screening, and landscaping requirements into Section 5-1400.
- Amend Section 5-600 et seq., Additional Regulations for Specific Uses, to establish new, and clarify, revise, and/or delete existing, setback, landscaping, screening, and buffering regulations for specific uses, and to add references to the requirements of Section 5-1400.
- Amend Section 5-900 et seq., Access and Setbacks From Specific Roads and the W&OD Trail, to relocate existing building and parking setback requirements from specific roads, and other setback and access requirements, into Section 5-1400.
- Amend Section 5-1300, Tree Planting and Replacement, to relocate certain existing requirements into the FSM because such requirements are more applicable to technical site or engineering design, and to establish new, and clarify, revise, and/or delete other existing requirements as necessary to implement and maintain consistency with the foregoing amendments.
- Amend Section 5-1400 et seq., Buffering and Screening, to incorporate and consolidate existing requirements that are being relocated from other Sections of the Zoning Ordinance, establish new, and clarify, revise, and/or delete existing and relocated, requirements in order to provide greater flexibility, facilitate innovative site design, and better address common design challenges and constraints; and to establish new buffer requirements for certain heritage and cultural resources in order to ensure the protection and preservation of existing and historic cemeteries and burial grounds during the land development process.

Attachment 4

- Amend Article 8 to establish new, and clarify, revise, and/or delete existing, definitions for terms used in the administration of setback, buffering, screening, and landscaping regulations.
- Amend such other Articles, Sections, Subsections, and provisions of the Zoning Ordinance as necessary to implement and maintain consistency with the foregoing amendments or as otherwise necessary to correct typographical errors, section and subsection numbering, and formatting within, update cross-references to, and further clarify the requirements of, the above-mentioned Articles, Sections, Subsections, and provisions of the Zoning Ordinance.

BE IT FURTHER RESOLVED, that the Board of Supervisors states its intention to amend the Loudoun County Facilities Standards Manual as follows:

- Amend Chapter 7, Environmental Design Standards, and/or create a new Chapter, as necessary to establish new standards and requirements for archaeological surveys and buffers around identified heritage and cultural resources in order to ensure the identification, protection and preservation of existing and historic cemeteries and burial grounds during the land development process, and to otherwise fully implement the foregoing amendments to the buffering, screening, and landscaping requirements of the Zoning Ordinance.
- Amend such other Chapters, Sections, Subsections, and provisions of the FSM as may be necessary to fully implement and maintain consistency with the foregoing amendments or as otherwise necessary to correct typographical errors, section and subsection numbering, and formatting within, update cross-references to, and further clarify the requirements of, the above-mentioned Chapters, Sections, Subsections, and provisions of the FSM.

BE IT FURTHER RESOLVED, that (1) these amendments are in furtherance of the public necessity, convenience, general welfare, and good zoning practice; (2) these amendments are in furtherance of the orderly subdivision of land and its development; (3) Staff is directed to prepare draft amendments for consideration; and (4) the proposed amendments on these matters are to be brought forward for notice, hearing, Planning Commission recommendation, and Board of Supervisors' action.

Zoning Administrator Advisory Opinion Use Classification

Use Group	Proposed Use Categories/ Uses	Additional Zoning Ordinance Regulations
1	Single Family Detached	Subject To 5-600
1	Cluster development	
1	Manufactured housing Portable dwelling/ Trailer construction	5-620
1	Dwelling, single family detached	
2	Single Family Attached	
2	Dwelling, single family attached (Duplex, Townhouse, and Stacked Townhomes)	
3	Multi-Family	• •
3	Dormitory, fraternity/sorority house, rooming/boarding house or other residential hall	
3	Dwelling, multi-family	
3	Rooming house	
4	Group Living	
4	Adult day care facility	5-609(B)
4	Orphanage, or similar institution	
4	Tenant dwelling, seasonal labor	5-602
4	Assisted living facility	
4	Congregate care facility	
4	Continuing care facility	
4	Convent, monastery, or seminary	5-656
4	Dormitory, seasonal labor	5-632
4	Nursing home or like type convalescent facility	5 052
5	Agriculture/ Horticulture/ Animal Husbandry and Passive Uses	
5	Equestrian event facility	5-630
5	Farm based tourism	5-628
5	Nursery, production	5-605
5	Pet farm	5-627
5	Virginia farm winery	5-627
5	Agricultural research facility	5-644
5	Agricultural processing / Agricultural processing facilities, such as an abattoir, cannery, grain mill and the like	5-627
5	Agriculture- General use category	5-626
5	Agriculture, horticulture, forestry and fishery, excluding the keeping of livestock	5-626
5	Agriculture, horticulture, forestry, and fishery	5-626
5	Agri-education Agritainment	<u>5-627</u> 5-627
5	Animal care business	5-627
5	Arboretum	5-636
5	Auction facility, livestock	5-651
5	Botanical garden or nature study area	5-636
5	Central farm distribution hub for agricultural products	5-630
5	Community garden Cultural amenities, e.g. fountains, ice rinks, reflecting	
5	pools Custom operators	5-627

Attachment 5

	Direct market business for the sale of products produced on-site included but not limited to pick-your-own	5-627
5	Eco-tourism	5-647
5	Farm co-ops	5-627
5	Farm market	5-603
5	Farm market (off-site production)	5-603
5	Feedlot (for on-going, on-site animal husbandry activities)	5-627
		5-027
5	Guest farms or ranch	
5	Horticulture- General use category	5-626
5	Memorial park	5-637
5	Municipal drinking water supply reservoir	
5	Nature Preserve, such as but not limited to, wildlife sanctuary, conservation area, and game preserve Nursery, production, with frontage on a state maintained	
5	road	5-605
5	Nursery, production, without frontage on a state maintained road	5-605
5	Park, passive recreational uses	
5	Park or plaza	
5	Public or private playground or neighborhood park	
5	Stable, Livery, with frontage on a state maintained road	5-627
	Stable, Livery, with include on a state maintained	
5	road	5-627
5	Stable, private	5-627
5	Stormwater management structures and ponds	
5	Wayside stand	5-604
6	Community and Active Recreation Uses	
6	Active recreation space Agricultural cultural center	5-634
6	Camp, day and boarding	5-645
6	Cemetery w/mausoleum	5-637
6	Community center	
6	Community center, HOA facilities only	
6	Community, neighborhood, or regional park, active	
-	recreation uses	
6	Dog Park	
6	Fairground	
~	rangiounu	5-635
6	Golf course (Including Accessory Uses)	5-635 5-648
	Golf course (Including Accessory Uses) Marina	
6 6 6	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer)	
6 6 6	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses	
6 6 6 6 6	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted	
6 6 6 6 6	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park	
6 6 6 6 6 6	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor	
6 6 6 6 6 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic	5-648
6 6 6 6 6 6 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital	
6 6 6 6 6 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic	5-648
6 6 6 6 6 6 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital	5-648
6 6 6 6 6 6 7 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital Medical care facility, including hospital	5-648
6 6 6 6 6 6 7 7 7 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital Medical care facility, including hospital Medical care facility, outpatient only	5-648
6 6 6 6 6 7 7 7 7 7 7 7 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital Medical care facility, including hospital Medical care facility, outpatient only Police station or substation	5-648 5-648 5-610 5-638
6 6 6 6 6 7 7 7 7 7 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital Medical care facility, including hospital Medical care facility, outpatient only Police station or substation Educational or research facilities related to uses permitted in this district	5-648
6 6 6 6 6 7 7 7 7 7 7 7 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital Medical care facility, including hospital Medical care facility, outpatient only Police station or substation Educational or research facilities related to uses permitted in this district Educational or research facilities use related to the	5-648 5-648 5-610 5-638
6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7	Golf course (Including Accessory Uses) Marina Outdoor amphitheater (2,000 seats or fewer) Park, active recreational uses Playing field and courts, lighted Public or private community or regional park Rural recreational establishment, outdoor Institutional/ Civic Hospital Medical care facility, including hospital Medical care facility, outpatient only Police station or substation Educational or research facilities related to uses permitted in this district Educational or research facilities use related to the agriculture, horticulture and animal husbandry uses in the district	5-648 5-648 5-610 5-638

7	Civic, social, and fraternal association meeting place	
7	College or university or other educational institution	
7	Cultural center	
7	Educational institution	
7	Fire and/or rescue station or substation	
7	General government use	
7	Library Mausoleum (Stand-alone)	5-637
7	Museum	5 051
7	Museum or exhibition facility, no direct access to Rt. 50	
7	Museum, cultural center, arboretum	
7	Museum, historical and cultural center	
7	Outdoor amphitheater (greater than 2,000 seats)	
7	Performing arts center	
7	Post office	
7	Private club or lodge	
7	Recycling drop off collection center	5-607
7	School, private (elementary, middle or high)	
7	School, public (elementary, middle or high)	5-666
7	Sports stadium, complex, arena	
7	Stadiums and arenas	
7	Structure or use for federal, state, county or local government purposes, not otherwise listed	
7	Vocational school, private	
7	Zoo	
8	Office and Conference/ Training Centers	
8	Conference and training center	5-640
8	Convention or exhibition facility	
8	Establishment for general research, scientific research, development and/or training where assembly, integration and testing of products in a completely enclosed building is incidental to the principal use of scientific research	
8	Office	
8	Research & Development	
8	Research, experimental, testing, or development activities	
8	Rural corporate retreat	5-619
8	Rural resort & retreat	5-601(D)
8	Rural retreats and resorts supporting recreational uses for hotels/motels, community recreation facilities including restaurants, swimming pools and changing facilities, maintenance structures, tennis/racquet ball courts and parking lots in the Village Conservancy subdistrict	
8	Training facility	
9	Commercial Retail	
9	Bank or financial institution	5-659
9	Bus terminal	/
		5 ((1
9	Business service establishment	.)-nn+
9 9	Business service establishment Animal hospital or day care center for pets	5-661
		5-650
9	Animal hospital or day care center for pets	5-650
9 9 9	Animal hospital or day care center for pets Art gallery Art studio	
9 9	Animal hospital or day care center for pets Art gallery	5-650
9 9 9 9	Animal hospital or day care center for pets Art gallery Art studio Brewery, limited	5-650
9 9 9 9 9 9	Animal hospital or day care center for pets Art gallery Art studio Brewery, limited Construction retail establishment	5-650 5-650

9 Fi	rearm range, indoor			
	olf driving range			
	ennel	5-606		
9 Ke	ennel, indoor	5-606		
	lotor vehicle rental			
	Iotor vehicle rental, with outdoor storage only	5 (05		
	ursery, commercial	5-605		
	Off-street parking facility, freestanding			
	Parking lot/ valet service, long-term			
	Recreation establishment, indoor			
	Recreation establishment, outdoor			
	ecreation vehicle park	5 (14		
	nall business	5-614		
	Veterinary service Amusement or theme park			
-	ntique shop	5-650		
	uction house	5-651		
	utomobile car sharing or rental agency			
	utomobile service station			
	akery, commercial			
	anquet/Event Facility	5-642		
	ed and breakfast homestay	5-601(A)		
9 Ве	ed and breakfast inn	5-601(B)		
9 Во	owling alley			
9 Ca	ar wash			
9 Cł	hild care center	5-609		
	ommercial retail and service uses with drive-throughs			
	ommuter parking facilities, structured or surface	5 617		
	onvenience food store, with or without gas pumps onvenience retail establishment with accessory gas pumps and/or car wash	<u>5-617</u> 5-617		
-	puntry club	5-660		
-	puntry inn	5-601(C)		
	raft shop	5-650		
	rematorium	5-637		
9	acility for lessons in dance, gymnastic, judo, and sports aining			
9 Fe	eed and farm supply center	5-627		
9 Fo	bod store			
	uneral home or mortuary			
	ealth and fitness center ome service establishment			
	one service establishment otel/ Motel	5-611		
	otel/Motel	5-011		
	lotor vehicle sales and service			
	lotor vehicle sales limited to racecars			
	lotor vehicle service and repair, heavy or light			
9 M	lotorcycle or ATV sales, rental, repair, and associated service			
9 Pe	ersonal service establishment			
9 Pł	harmacy	5-659		
9 Pł	harmacy, with drive-through facilities			
	ostal service, including overnight courier collection and overnight mail distribution facility.			
9 Pr	rinting service			
9 Re	epair service establishment			
9 Re	epair service establishment, with accessory outdoor storage			
9 Re	estaurant	5-643		
9 Re	estaurant, carry-out only			

9	Restaurant, dine-in and carryout only, excluding drive- through facilities		
9	Restaurant, dinner theatre		
9	Restaurant, fast food with drive-through facility		
9	Restaurant, fast-food, excluding drive-through facilities		
9	Restaurant, including carry out		
9	Restaurant, with drive-through facility		
9	Retail - Ambulatory food/beverage vendors and mobile vending carts		
9	Retail sales establishment	5-641	
9	Teahouse; coffeehouse Theater		
9	Theatre, indoor		
9	Winery, commercial	5-625	
10	Flex-Industrial Uses and Utilities		
10	Communal sewer system	5-621	
10	Communal water supply system	5-621	
10	Contractor service establishment with or without outdoor storage	5-662	
10	Contractor's service establishment, limited to landscape contractors and lawn maintenance services		
10	Dry cleaning plant		
10	Fruit processing, storage		
10	Mass transit facilities & stations		
10	Motor vehicle storage, outdoor		
10	Outdoor storage, vehicles		
10	Craft beverage manufacturing	5-668	
10	Data center	5-664	
10	Distribution facility		
10	Establishments for assembly, fabrication, processing, production and/or manufacturing of goods and products		
10	Flex industrial uses	5-608	
10	Light manufacture, processing, fabrication, and/or assembly of goods and products that does not generate noise, odor, vibration, or other hazard outside the boundaries of the subject property, pursuant to section 4010E. Such goods and products may include, but are not limited to: scientific and precision instruments; photographic equipment; communication or computation equipment; drugs, medicines, pharmaceutical; household appliances; toys, sporting and athletic goods; die-cut paperboard and cardboard; glass products made of purchased glass; electric lighting and wiring equipment; service industry machines; lithographic and printing processes; industrial controls; radio and TV receiving sets; watches and clocks; bags and containers; sanitary paper products; optical goods; and electrical machinery.		
	Manufacture, processing, fabrication and/or assembly, distribution of products, such as, but not limited to: scientific and precision instruments, photographic equipment, communication, computation equipment, drugs, medicines, pharmaceutical, household appliances, toys, sporting and athletic goods, die-cut paperboard and cardboard, glass products made of purchased glass, electric lighting and wiring equipment, service industry machines, lithographic and printing processes, industrial controls,		
10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage		
10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage Moving and storage company		
10 10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage		
10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage Moving and storage company		
10 10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage Moving and storage company Printing plant	5-621	
10 10 10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage Moving and storage company Printing plant Public utility buildings or structures	5-621	
10 10 10 10	radio and TV receiving sets, watches and clocks, bags and containers, sanitary paper products, optical goods, electrical machinery, mobile homes, prefabricated and modular housing and components, dairy products, feed and grain, baked and confectioners' goods, farm machinery, fruit and vegetable processing, canning, and storage Moving and storage company Printing plant Public utility buildings or structures Public utility service center, with or without outdoor storage	5-621	

	storage, sale, or resale or materials, goods, and products which are purchased and reassembled are incidental to the principal use.	
10	Sale and storage of building materials and garden supplies	
10	Sewage pumping station	5 (21
10	Sewage treatment plant	5-621
10	Stone cutting, welding, blacksmith, tinsmith and woodworking shops with accessory enclosed storage	
10	Storage, mini-warehouse	5-665
10	Storage, outdoor	
10	Telecommunications antenna	5-618(A)
10	Telecommunications monopole	5-618(B)
10	Telecommunications roof top antenna on a multi-family structure which is forty (40) feet or greater in height	5-618
10	Telecommunications transmission tower	5-618
10	Testing station	
10	Utility generating plant or transmission facility	
10	Utility Substation	5-616
10	Utility substation, communal water and wastewater treatment facilities and other utilities to serve the Rural Village district	
10	Utility Substation, dedicated	5-621
10	Utility substation, distribution	5-616 and 5-
10	Utility substation, transmission	5-616 and 5-
10	Vehicle wholesale auction	5-624
10	Warehousing facility	
10	Water pumping station	5-621
10	Water storage tank	5-621
10	Water storage tank, elevated	
10	Water treatment plant	5-621
10	Water well, Municipal	5-621
10	Wholesale trade establishment	5-663
11	Heavy Industrial and Aviation	
11	Automobile graveyard or junk yard	
1.1	Crushing, treating, washing, and/or processing of	
11	materials	
11		5-607
	materials	5-607
11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip	5-607
11 11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant	
11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant	
11 11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant	
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11 11 11 11 11 11 11 11 11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant Excavation, mining, dredging, stripping Extraction of sedimentary rock Heavy equipment and specialty vehicle sales, rental, repair and accessory service Heliport or helistop Magazine contained explosives facility	5-633
11 11 11 11 11 11 11 11 11 11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant Excavation, mining, dredging, stripping Extraction of sedimentary rock Heavy equipment and specialty vehicle sales, rental, repair and accessory service Heliport or helistop Magazine contained explosives facility	5-633
11 11 11 11 11 11 11 11 11 11 11 11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant Excavation, mining, dredging, stripping Extraction of sedimentary rock Heavy equipment and specialty vehicle sales, rental, repair and accessory service Heliport or helistop Magazine contained explosives facility Solid waste incinerator, landfill or transfer station Stockpiling of dirt Stone quarrying	5-633 5-633 5-622 5-629
11 11	materialsMaterial recovery facilityMotor vehicle storage and impoundmentAirport/Landing StripAsphalt mixing plantConcrete mixing plantExcavation, mining, dredging, strippingExtraction of sedimentary rockHeavy equipment and specialty vehicle sales, rental, repair and accessory serviceHeliport or helistopMagazine contained explosives facilitySawmillSolid waste incinerator, landfill or transfer stationStockpiling of dirt	5-633 5-633 5-622 5-629
11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant Excavation, mining, dredging, stripping Extraction of sedimentary rock Heavy equipment and specialty vehicle sales, rental, repair and accessory service Heliport or helistop Magazine contained explosives facility Solid waste incinerator, landfill or transfer station Stockpiling of dirt Storage for coal, lumber, building material, contractor equipment, and similar material	5-633 5-633 5-622 5-629
11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant Excavation, mining, dredging, stripping Extraction of sedimentary rock Heavy equipment and specialty vehicle sales, rental, repair and accessory service Heliport or helistop Magazine contained explosives facility Sawmill Solid waste incinerator, landfill or transfer station Stockpiling of dirt Storage for coal, lumber, building material, contractor	5-633 5-622 5-629
11 11	materialsMaterial recovery facilityMotor vehicle storage and impoundmentAirport/Landing StripAsphalt mixing plantConcrete mixing plantConcrete mixing plantExcavation, mining, dredging, strippingExtraction of sedimentary rockHeavy equipment and specialty vehicle sales, rental, repair and accessory serviceHeliport or helistopMagazine contained explosives facilitySawmillSolid waste incinerator, landfill or transfer stationStorage for coal, lumber, building material, contractorequipment, and similar materialStorage of empty solid waste vehicles and containersStorage, building material or contractor's equipment, coal, lumber	5-633 5-633 5-622 5-629
11 11	materials Material recovery facility Motor vehicle storage and impoundment Airport/Landing Strip Asphalt mixing plant Concrete mixing plant Excavation, mining, dredging, stripping Extraction of sedimentary rock Heavy equipment and specialty vehicle sales, rental, repair and accessory service Heliport or helistop Magazine contained explosives facility Sawmill Solid waste incinerator, landfill or transfer station Stockpiling of dirt Stone quarrying Storage for coal, lumber, building material, contractor equipment, and similar material Storage of empty solid waste vehicles and containers	5-633 5-633 5-622 5-629

Loudoun County Fire and Rescue



PO Box 7100 801 Sycolin Road SE, Suite 200 Leesburg, VA 20177-7100 Phone 703-777-0333 Fax 703-771-5359



Memorandum

To:Josh Elkins, Project ManagerFrom:Maria Figueroa Taylor, Fire-Rescue Planner MDate:February 13, 2018Subject:Countywide Landscaping and Buffer Standards
ZOAM 2017-0005 & DOAM 2018-0001

Thank you for the opportunity to review the above captioned application. The Fire and Rescue Planning Staff has no comments.

If you have any questions or need additional information, please contact me at 703-777-0333.

c: Project file



DATE:	April 4, 2019
TO:	Josh Elkins, Project Manager, Department of Planning and Zoning
FROM:	Buddy Rizer, Executive Director, DED
Prepared By:	Katy Lowitz, Development Process Manager, DED
SUBJECT:	Countywide Landscaping and Buffer Standards

ZOAM-2017-0005 and DOAM-2018-0001

The Department of Economic Development's (DED) analysis of the above applications are detailed below in the following sections.

Applicant Proposal

- 1. Zoning Ordinance Amendment to:
 - a. Ensure the buffering and screening standards of the Revised 1993 Loudoun County Zoning Ordinance are appropriate for the intended form(s) of development throughout the County.
 - b. Provide sufficient flexibility to facilitate innovative site design and enable resolution of common design challenges and constraints.
- 2. A Development Ordinance Amendment to ensure consistency between the updated Zoning Ordinance requirements and the corresponding technical design standards of the Facilities Standards Manual.

DED Response

DED supports efforts to provide predictable standards and processes with regard to buffering and landscaping in the county.

Attractive streetscapes and commercial property frontage contribute to a sense of place and cohesiveness within the county, which supports business development efforts to attract, retain and expand business investment. Updated and appropriate landscaping and buffer requirements provide an aesthetically pleasing and necessary transition between uses. Additionally, the proposed requirements should reduce the need for applicants to request landscape and buffer zoning modifications, a practice that is common at the present time. The requests for zoning modifications delays the approval process due to increased staff review time required for each project. Finally, the proposed Zoning Ordinance Amendment enhances design flexibility and plant diversity further contributing to a business friendly land development process.



As far as cluster specific changes, DED feels the amendments to specific landscape standards for data centers in Section 5-664 requiring larger trees at the time of planting and unique plant composition/mix are reasonable and address community feedback. Additionally, the proposed text revisions help refine district-specific perimeter buffers and buffers of adjacent uses rather than relying on lot lines or zoning district. This should benefit rural businesses as, in many instances, rural structures/uses are often set far back from lot lines.

Please contact Katy Lowitz, <u>katy.lowitz@loudoun.gov</u> or 703-737-8274, for any follow-up questions or concerns.

COUNTY OF LOUDOUN

DEPARTMENT OF BUILDING AND DEVELOPMENT

MEMORANDUM

DATE: March 6, 2019

TO: Josh Elkins, PLA, CZA; Zoning Planner

FROM: John Zuiker, County Urban Forester

SUBJECT: ZOAM/DOAM referral comments

The following ZOAM/DOAM referral comments are from the Natural Resources Team, Building & Development Department.

	Zoning #	Comment
1.	4-1017	Clarify that the street trees are to be planted on both sides of the street.
2.	4-1119	Clarify that the street trees are to be planted on both sides of the street.
3.	5-616.D	Buffer yards allow a maximum of 50% evergreens however typically you would want to require more to screen this use. At least 70%.
4.	5-1002.D.1	Remove text (Area Forester), add County urban forester.
5.	5-1303.B.4	Clarify that the street trees are to be planted on both sides of the street.
6.	Table 5- 1403(F)(1)	Large Deciduous trees should be identified as a minimum of 2 inch caliper. Also remove text (dbh). It is in conflict with caliper measurement.
7.	Table 5- 1403(F)(1)	Small deciduous trees must be identified as a minimum of 2 inch caliper to be consistent with FSM Table 3. Remove text (8-foot height).
8.	Table 5- 1403(F)(1)	Change shrub height to 24-inch from 30 -inch to provide greater diversity for shrub plantings but still allow for taller plant material along this Gateway Corridor.
9.	5- 1403.F.1.b.(iii)	Change shrub minimum height from 30 inches to 24 inches to be consistent with Table $5-1403(F)(1)$.
10.	5-1404.F (Buffer Yard Location Example)	Change text (Proposed Tree Save Area) to (Proposed Tree Conservation Area) to be consistent with terminology in FSM.
11.	5-1406.A(2)	The text (125 square feet) should be changed to 130 square feet to meet the FSM requirements of a minimum planting area of 130 square feet for large deciduous trees.
12.	5-1406.A(2)	The text (five (5) feet) should be revised to at least 7 feet to avoid vehicle doors opening and also provides the minimum planting area in square feet for large deciduous trees.

13.	5-1406.A(3)	Add text that the landscape open space shall be provided at each end of
13.	J-1400.A(J)	every row of parking.
14.	5-1406.A(5)	Evergreen trees should not be planted in parking lots for the following
		reasons: they are a safety concern near parked vehicles, they block the
		view of vehicles, pedestrians and particularly children, they create
		isolated ice patches that are a serious safety hazard, and snow loads will
1.5		bend the trees into travel lanes and parking spaces.
15.	5-1406.A(5)	Text should be added that no trees or shrubs shall be planted closer than 3 feet from any curbs or pavement.
16.	5-1406.A(6)	The text should include large and <u>small</u> deciduous trees since they will
10.		block the lights as well.
17.	5-1406 (Inter.	The minimum 8' width parking island and minimum 125 square
	Parking Lot)	feet is not consistent with the revised text.
18.	5-1406.B.2	Reference evergreen shrubs at a minimum of 24 inches in height.
19.	5-1406.C	Text should be added that no trees or shrubs shall be planted closer than
		3 feet from any curb and gutter.
20.	5-1407.E	Remove text (American National Standards Institute, ANSI A300
		(Part 6) and companion publication Tree Planting, Best
		Management Practices) and replace with Md., DC, Va. Landscape
		Contractors Association; Landscape Specification Guidelines, to be
		consistent with the FSM.
21.	5-1407.E.1.a	Remove text after (1) inch, (diameter at breast height (d.b.h.
		measured at 4 and ½ feet above ground).
22.	Article 8 –	Tree Canopy or Tree Cover: remove text (plant material) and insert
	Definitions	trees.
23.	Article 8 –	Tree, Deciduous: Remove reference to shrub.
	Definitions	
		FSM Chapter 7
24.	7.302.A.9	Remove text (American National Standards Institute (A300 (Part 6 –
		Planting and Transplanting) to have only one reference and to be
		consistent with the Zoning Ordinance.
25.	7.305.B.1	Revise text to read with one of the plant density options listed in
26	7 205	Table 2. Label the table for election as ention 1 and ention 2
26.	7.305 Table 2-	Label the table for clarification as option 1 and option 2.
	Densities for	
	Reforestation	
27.	7.305	Revise the text for container to the following:
21.	Table 2-	Containers, 3 - gallon or larger or Balled and Burlapped
	Reforestation	Containers, 5 - ganon or larger or baned and burrapped
28.	7.305	Add: " 12 X 12 " under the spacing category for Container and B&B
20.	Table 2-	trees
	Reforestation	
		1

County of Loudoun

Department of Building and Development

MEMORANDUM

DATE: March 6, 2019

TO: Josh Elkins, Planner, Zoning Administration

FROM: Laura Edmonds, Staff Liaison, FSM Public Review Committee

SUBJECT: ZOAM-2017-0005 and DOAM-2018-0001, Countywide Landscaping and Buffer Standards

The Facilities Standards Manual (FSM) Public Review Committee (PRC) discussed the draft buffer amendments during their February 26, 2019 meeting. Their comments are as follows:

- Question the value and import of the Type A buffer surrounding single-family detached proposed uses in the non-suburban districts against vacant land (e.g., AR).
- Clarify Footnote 1 (vacant land) under Table 5-1404(C) Use Buffer Yard Matrix and whether it is needed.
- Recommend that the 25-foot preservation buffer be eliminated or that land disturbance be permitted without requiring a Treatment Plan.

County of Loudoun

Department of Planning and Zoning

MEMORANDUM

DATE: March 14, 2019

TO: Josh Elkins, PLA, CZA, Planner, Planning and Zoning

FROM: Randall Farren, AICP, Senior Planner, Community Planning

SUBJECT: ZOAM-2017-0005 and DOAM-2018-0001, Countywide Landscaping and Buffer Standards

BACKGROUND

Beginning in 2017, Department of Planning and Zoning staff engaged the Zoning Ordinance Action Group (ZOAG) and contractors to evaluate the county's buffer and screening regulations and develop draft ordinance language to address identified issues. This Zoning Ordinance Amendment (ZOAM) was included in the 2018 ZOAM Work Program that the Board adopted (9-0) on February 6, 2018, and also included in the 2019 ZOAM Work Program that the Board adopted (9-0) on December 4, 2018. This ZOAM and Development Ordinance Amendment (DOAM) also address the March 17, 2017, Board Member Initiative (BMI) (7-0-2; Buffington and Higgins absent) directing staff to develop ordinance language to preserve existing cemeteries and burial grounds.

The proposed ZOAM and DOAM are intended to better align the buffering, screening, and related landscaping standards of the <u>Revised 1993 Zoning Ordinance</u> ("Ordinance") with evolving community expectations and development conditions. The revised standards are expected to provide added flexibility in meeting relevant standards, reduce the need for recurring zoning modification requests, improve the land development review process, and facilitate more desirable streetscape, landscape, and buffer designs. These amendments are therefore intended to refine the County's buffer yard and screening requirements as they pertain to parking lot and mechanical equipment screening, district-specific perimeter buffers, road corridor buffers, and buffer yards between adjacent uses. The amendments also establish new regulations aimed at preserving existing burial grounds and cemeteries during land development processes, providing guidance on their identification and protection during land disturbing activities.

ANALYSIS

The <u>Revised General Plan</u> (RGP) is the foundation for amendments to County ordinances to ensure that the County's goals are implemented through the regulatory process. It is intended that these ordinances will be updated consistent with the policies of the RGP in

keeping with State law and supported by State case law (*RGP, Chapter 1, Legal Basis for the Plan, text*). This referral memo provides an analysis of the consistency of the proposed ZOAM with applicable sections of the RGP and the Heritage Preservation Plan (HPP).

Key changes associated with this ZOAM and DOAM are as follows:

- revising Section 5-1400 of the Ordinance pertaining to buffers, screening, and landscaping;
- consolidating Section 5-900 of the current Ordinance into Section 5-1400, which now addresses building and parking setbacks and buffers from major roads;
- relocating landscaping standards for specific uses currently found in Section 5-600 of the Ordinance to Section 5-1400;
- amending specific standards for data centers to require larger trees at the time of planting and unique plant composition/mix; and
- removing the 50-foot perimeter buffer requirement associated with certain residential developments and incorporating more appropriate perimeter buffers for residential development into Section 5-1400 of the Ordinance;
- adding new standards for preservation of historic cemeteries, burial grounds and graves to Section 5-1400 of the Ordinance; and
- relocating specific plant species information to Section 5-1400 of the Facilities Standards Manual (FSM).

The RGP provides generalized guidance on landscaping, screening, and buffering among potentially incompatible uses. Overall, the RGP promotes the use of well-designed landscaping and vegetative buffers for a variety of purposes. These include noise abatement (*RGP, Chapter 5, Green Infrastructure, Complementary Elements, Aural Environment*); visual interest (*Chapter 6, Suburban Policy Area, Land Use Pattern and Design Policies, Policy 3*); and defining site functions, enhancing environmental quality, providing shade, and promoting native vegetation (*RGP, Chapter 6, Suburban Policy Area, Route 28 Corridor Plan, Office Cluster and Mixed-Use Office Center Design Standards, Landscaping Standards*).

Compatibility and Site Design

The RGP denotes a general preference for achieving compatibility and harmony among uses through the use of unified streetscape and buffering treatments that soften transitions among uses, rather than rigidly demarcating them through structural measures. (*RGP, Chapter 5, Green Infrastructure, Complementary Elements, Aural Environment; Chapter 6, Suburban Policy Area, Route 28 Corridor Plan, Office Cluster and Mixed-Use Office Center Design Standards, Landscaping Standards; Chapter 11, Implementation, Suburban Community Design Guidelines, Residential Neighborhoods, Land Use Arrangement). Community Planning Staff finds the overall proposed approach to screening and buffering to be in conformance with the approaches encouraged in the RGP. The proposed amendments will encourage more consistent treatments along similar road corridors, especially where disparate uses are located across the street from one another. The proposed buffers between adjacent uses, while simplified, are likely to*

provide adequate screening without imposing unnecessarily onerous buffers among uses or resulting in undesirable segregation of otherwise compatible uses.

The RGP does not include direct guidance on the proposed amendment to the current 50-foot perimeter buffer yard requirement for certain residential developments. However, the RGP does include policy language stating that interior open space must account for at least 75 percent of required open space for new residential developments in the Suburban Policy Area (*RGP, Chapter 6, Suburban Policy Area, Open Space Policy 3*). Community Planning Staff notes that applicants typically count their perimeter buffer yards toward required open space commitments. The proposed Ordinance amendment would help encourage the commitment of more usable, interior open space, furthering the aforementioned plan policy and, therefore, Community Planning Staff supports this element of the proposed amendments.

Overall, Community Planning Staff finds the proposed Ordinance amendments to be in keeping with the compatibility and site design policies of the RGP. The proposed changes are anticipated to encourage more creativity and flexibility in buffer and landscaping designs. Therefore, Community Planning Staff recommends adoption of these elements of the proposed amendments.

Natural and Heritage Resources

The RGP encourages the use and design of vegetative buffers that enhance environmental functions, promote native species, and encourage native vegetation. (*RGP, Chapter 6, Suburban Policy Area, Route 28 Corridor Plan, Office Cluster and Mixed-Use Office Center Design Standards, Landscaping Standards*). Community Planning Staff notes that the proposed restructuring of buffer yard requirements and the use of the proposed "Plant Unit" system are likely to encourage more creative and diverse designs both in terms of structure and plant diversity. These changes are likely to encourage a greater variety of pollinators and enhance the ecosystem services provided by buffer plantings, especially where used in combination with requirements for the use of native plant species.

The RGP identifies cemeteries and burial sites as important natural and heritage resource elements, specifically in the Rural Policy Area (*RGP*, *Chapter 7*, *Rural Policy Area*, *Green Infrastructure*, *text*). The Heritage Preservation Plan (HPP) includes more specific policy language that closely aligns with the proposed new standards for cemeteries and burial grounds and encourages the proposed revisions to the County's regulatory documents. The HPP calls for the integration of preservation efforts into the County's Development Review Process for "early identification and clear guidelines for review and preservation" of heritage resources such as cemeteries, and further calls for the review and revision of the Ordinance to facilitate resource protection (*HPP*, *Phase 1 Actions*, *Actions 2 and 4*). The HPP also states that "the County will review and make changes, as necessary, to the various regulatory documents" including the Ordinance and the FSM in order to encourage heritage preservation (*HPP*, *Chapter 9*, *Development Review*, *Land Development Policy 4*). Finally, the proposed ZOAM would require the establishment of buffers and preservation areas surrounding existing cemeteries and burial grounds. This

is in keeping with the Buffer Guidelines in Chapter 10 of the HPP, which state that heritage resources "should be appropriately buffered from surrounding development" especially when the original historic context of the site or resource cannot be otherwise maintained.

Overall, the proposed amendments are in conformance with the relevant natural and heritage resource policies of the RGP and HPP and further several identified policy goals of each.

Draft Loudoun 2040 Comprehensive Plan

The County is currently in the process of developing a new comprehensive plan to guide future land use and development. The October 23, 2018 version of the Draft Loudoun 2040 Comprehensive Plan does not provide specific guidance on screening and buffering that differs significantly from that of the RGP. However, Community Planning Staff notes that the Place Type approach to land use as described in the draft Loudoun 2040 plan generally promotes compatibility of uses and unified site design approaches through form-based considerations and thoughtful transitions among disparate uses. Overall, the additional flexibility afforded through the proposed amendments would encourage the type of creative approaches to streetscapes and transitions among uses envisioned in the draft Loudoun 2040 plan, especially in areas where a vertical or horizontal mix of uses are anticipated.

Recommendation

The proposed ZOAM and DOAM would facilitate approaches to landscaping, vegetative screening, buffering, and streetscapes that are in keeping with plan policy and further RGP objectives related to compatibility, site design, and natural and heritage resources. Further, the proposed amendments conform to policies related to the identification, preservation, and buffering of cemeteries and burial grounds as outlined in the HPP. As such, the proposed ZOAM and DOAM conform to relevant Plan policies and, therefore, Community Planning Staff supports their approval.

Cc: Alaina Ray, AICP, Director, Planning and Zoning-via email Chris Mohn, AICP, Deputy Zoning Administrator, Planning and Zoning-via email Dan Galindo, AICP, Program Manager Community Planning, Planning and Zoning-via email



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DATE: March 13, 2019

FROM: Loudoun County Heritage Commission

TO: Department of Planning & Zoning, Josh Elkins, Planner, Zoning Administration

SUBJECT: REFERRAL REVIEW FOR ZOAM 2017-0005 AND DOAM 2018-0001, Countywide Landscaping and Buffer Standards.

Dear Mr. Elkins,

The Heritage Commission met on March 5, 2019 and received the presentation from your department regarding the Zoning Ordinance Amendment for buffering and screening standards for cemeteries.

It is the Heritage Commission's priority that this ZOAM protect cemeteries in the following manner and for the stated purposes:

Cemetery Protection Priorities:

1. Cemeteries are historic and cultural resources. As cemeteries serve as a community's sacred memorialization grounds, they also indicate what values, beliefs, and standards a community practiced. Any plantings that were used as commemoration, even those that in another context may be considered "invasive species," is a component of the cemetery equivalent to headstones or markers, and thus should be preserved. Additionally, not all burials are marked by carved headstones; some are marked with fieldstone or not at all. Delineation will determine where unmarked burials exist. Some cemeteries are outlined with stone walls, fences, or plantings and those should be protected as part of the resource.

2. The disinterment and/or removal of historic cemeteries should not be the default simply to accommodate development. As development is planned, cemeteries should be defaulted to stay in situ. Disturbing burials removes the context, damages the resources, and is indecent to the remains.

3. As cemeteries are left in their historic and sacred context, their care and maintenance should be monitored and standards met. Leaving a cemetery in situ, only to be neglected into dereliction or otherwise harmed is not protecting the resource.

In reviewing the draft ZOAM, the Heritage Commission recommends the following specific edits:

1. Attachment 9, 7.820, ARCHAEOLOICAL SURVEY/ E: Currently states "However, exhumation and reinternment must be coordinated with the County Archeologist."

a. Heritage Commission requests change to: "The Treatment Plan will be submitted to the County Archaeologist or Historic Preservation Planner for review and approval."

2. Attachment 9, 7.830, CEMETERY, BURIAL GROUND, AND GRAVE TREATMENT PLAN/ C: Currently states, "A description of the existing vegetation to be preserved or conserved, treatment of invasive species, within the buffer and any proposed landscaping."

a. Heritage Commission requests change to: "A description of the existing vegetation to be preserved or conserved, a plan for careful removal of any potentially damaging and non-planted invasive species, within the buffer and any proposed landscaping for County staff review." *(see note below)

3. Attachment 9, 7.830, CEMETERY, BURIAL GROUND, AND GRAVE TREATMENT PLAN/ E: Currently states, "A description of any proposed opaque barriers or hardscaping."

a. Heritage Commission requests change to: "A description of any proposed opaque barriers, hardscaping, or fencing." **(see note below)

4. Attachment 7, CEMETERY, BURIAL GROUND, AND GRAVE BUFFERS (a), (b) and (c): Currently states, "and clearing of invasive vegetation on the surface." *(see note below)

a. Heritage Commission requests change to: "and clearing of invasive vegetation on the surface reviewed by County staff to ensure it was non-planted."

The Heritage Commission supports this ZOAM and recommends Board of Supervisors approval with the requested changes outlined in this memorandum.

Thank you for your consideration.

With best regards,

Robert A. S Belach

Robert Pollard Chair, Loudoun County Heritage Commission

*Note: Background: Heritage Commission is concerned about the use of "invasive species" or "invasive vegetation." As stated in Priority 1. above, some plantings were intentionally installed for commemoration, this includes but is not limited to periwinkle, daffodils, flowering plants. Additionally, any plant removal, particularly that of honeysuckle can be damaging in that roots may disturb burials, i.e. ground disturbance.

**Note: Background: Heritage Commission is concerned about fence post footings installed inside the 5-foot setback from the edge of delineated area and 24 inches or more below ground, for grave shaft disturbance.

cc: Mark Stultz, Zoning Administrator Alaina Ray, Director, Department of Planning & Zoning Dan Galindo, Department of Planning & Zoning Heritage Commission

County of Loudoun

Department of Transportation and Capital Infrastructure

MEMORANDUM

DATE: April 5, 2019

- **TO:**Josh Elkins, Project Manager
Department of Planning & Zoning (DPZ)
- FROM:Deborah S. Miller, Transportation Planner \mathcal{PP} DTCI, Transportation Planning & Operations Division

SUBJECT: ZOAM 2017-0005 & DOAM 2018-0001 – Countywide Landscaping and Buffer Standards First Referral

Background

This Zoning Ordinance Amendment (ZOAM 2017-0005) proposes the to amend the <u>Revised 1993</u> <u>Zoning Ordinance</u> (Zoning Ordinance) regarding buffering and screening standards in order to 1) establish appropriate landscaping buffers and ensure that the public and development community understand what is reasonable and expected regarding these buffering and screening standards, consolidated under Section 5-1400, including parking lot and mechanical equipment screening, district-specific perimeter buffers, road corridor buffers, and buffer yards between adjacent uses and vacant land; 2) provide sufficient flexibility to facilitate innovative site design and enable resolution of common design challenges and constraints; 3) establish new regulations governing the preservation of existing and historic cemeteries, burial grounds and grave sites, to include provisions addressing boundary identification, proximity of land disturbing activity, and perimeter buffering; and 4) provide additional clarification within the regulations of the current Zoning Ordinance. Specifically, this ZOAM proposes to completely delete Section 5-900 (Access and Setbacks From Specific Roads and the W&OD Trail) and consolidate all buffering and screening requirements under Section 5-1400 (Landscaping – Buffer yards, Screening, Parking and Landscape Plans), as well as make changes to Articles 1, 2, 3, 4 and 8 and Section 5-600 (Additional Regulations for Specific Uses).

This Development Ordinance Amendment (DOAM 2018-0001) proposes to amend Chapters 7 and 8 of the Loudoun County <u>Facilities Standards Manual</u> (FSM) in order to 1) implement various revisions to the buffering and screening standards proposed with ZOAM 2017-0005; 2) require an Archeological Survey for new development in order to identify and delineate existing or unknown cemeteries, burial grounds or graves; 3) implement various revisions to tree standards, species diversity criteria, landscaping tables, provisions to allow for substitution of different species at time of planting, forest management plan requirements and canopy tables; and 4) relocate specific plant species information in Section 5-1400 of the Zoning Ordinance to the FSM.

A resolution of intent to amend pertaining to the aforementioned amendments was approved by the Board of Supervisors on March 7, 2017.

Department of Transportation and Capital Infrastructure's (DTCI's) review of these applications is based on materials received from the Department of Planning and Zoning on December 20, 2018, including 1) a referral cover sheet, dated December 20, 2018, containing a summary of the proposed amendments; and 2) draft text revisions to Articles 1, 2, 3, 4, and 8, Sections 5-600, 5-900, and 5-1400 of the Zoning Ordinance and Chapters 7 and 8 of the FSM. A copy of the proposed ZOAM and DOAM draft text is attached to this referral.

Transportation Comments

- The <u>Countywide Transportation Plan (2010 CTP</u>) is being revised and is currently under review by the Board of Supervisors. DTCI staff notes that the draft <u>Loudoun 2040 Countywide</u> <u>Transportation Plan</u> proposes various changes to the County's planned public roadway network, including changes to roadway functional classifications. Details of these changes as currently proposed can be made available upon request.
- 2. DTCI notes that the standards for Access and Setbacks from Major Roads and the W&OD Trail in Section 5-900 have been relocated and consolidated into Section 5-1400 (Landscaping – Buffer yards, Screening, Parking and Landscape Plans) of the Zoning Ordinance. The draft text provided in Section 5-1400, as presented with this submission, is consistent with the existing setback requirements under Section 5-900 (which is proposed for deletion in its entirety). However, in Table 5-1403(B), shown on Page 2 of Attachment 7, the second description for Route 50 should be revised to reference "Northstar Boulevard" west to Fauquier County line, instead of "Route 659 Relocated".
- 3. DTCI notes that draft text was added to Chapter 7 of the FSM regarding standards for the preservation of historic cemeteries, burial grounds, and graves (FSM § 7.820) that includes requirements of a minimum 15-foot wide access easement with frontage on a street or other point of public ingress to provide direct access to a cemetery, burial ground or grave site. However, in FSM § 7.830 Cemetery, Burial Ground, and Grave Treatment Plan, DTCI notes that access easements are not listed as a required plan element of a Cemetery, Burial Ground, and Grave Treatment plan. DTCI recommends that the draft text include this requirement as well as a statement that no cemetery, burial ground or grave shall have direct access to any existing or planned limited access roadway, such as VA Route 28 (Sully Road) and portions of VA Route 7 (Harry Byrd Highway). DTCI defers additional comment on these matters to the Department of Building and Development.

ATTACHMENTS

- 1. Draft Text Zoning Ordinance Article 1, dated December 11, 2018
- 2. Draft Text Zoning Ordinance Article 2, dated December 11, 2018
- 3. Draft Text Zoning Ordinance Article 3, dated December 11, 2018
- 4. Draft Text Zoning Ordinance Article 4, dated December 11, 2018
- 5. Draft Text Zoning Ordinance Section 5-600, dated December 11, 2018
- 6. Draft Text Zoning Ordinance Section 5-900, dated December 11, 2018
- 7. Draft Text Zoning Ordinance Section 5-1400, dated December 11, 2018
- 8. Draft Text Zoning Ordinance Article 8, dated December 11, 2018
- 9. Draft Text Facilities Standards Manual Chapter 7, dated December 19, 2018
- 10. Draft Text Facilities Standards Manual Chapter 8, dated December 19, 2018
- cc: Lou Mosurak, Senior Coordinator, DTCI