

Section 10.20 **"S" Shoreland District.**

Subd. 1. **Statutory Authorization and Policy.**

A. **Statutory Authorization.** This shoreland ordinance is adopted pursuant to the authorization and policies contained in Minn. Stat. Chapter 103.F, Minnesota Regulations, Parts 6120.2500 - 6120.3900, and the planning and zoning enabling legislation in Minn. Stat. Chapter 462.

B. **Policy.** The uncontrolled use of shorelands of the City of Alexandria, Minnesota affects the public health, safety and general welfare not only by contributing to pollution of public waters, but also by impairing the local tax base. Therefore, it is in the best interests of the public health, safety and welfare to provide for the wise subdivision, use and development of shorelands of public waters. The Legislature of Minnesota has delegated responsibility to local governments of the state to regulate the subdivision, use and development of the shorelands of public waters and thus preserve and enhance the quality of surface waters, conserve the economic and environmental values of shorelands, and provide for the wise use of waters and related land resources. This responsibility is hereby recognized by the City of Alexandria.

Subd. 2. **General Provisions and Definitions.**

A. **Jurisdiction.** The provisions of this section shall apply to the shorelands of the public water bodies as classified in Subd. 4 of this section. Pursuant to Minnesota Regulations, Parts 6120.2500 - 6120.3900, no lake, pond, or flowage less than 10 acres in size in municipalities or 25 acres in size in unincorporated areas need be regulated in a local government's shoreland regulations. A body of water created by a private user where there was no previous shoreland may, at the discretion of the governing body, be exempt from this ordinance.

B. **Compliance.** The use of any shoreland of public waters; the size and shape of lots; the use, size, type and location of structures on lots; the installation and maintenance of water supply and waste treatment systems, the grading and filling of any shoreland area; the cutting of shoreland vegetation; and the subdivision of land shall be in full compliance with the terms of this section and other applicable regulations.

C. **Enforcement.** The Zoning Administrator is responsible for the administration and enforcement of this section. Any violation of the provisions of this section or failure to comply

with any of its requirements (including violations of conditions and safeguards established in connection with grants of variances or conditional uses) shall constitute a misdemeanor and shall be punishable as defined by law. Violations of this section can occur regardless of whether or not a permit is required for a regulated activity pursuant to Subd. 3A of this section.

D. **Interpretation.** In their interpretation and application, the provisions of this ordinance shall be held to be minimum requirements and shall be liberally construed in favor of the governing body and shall not be deemed a limitation or repeal of any other powers granted by State Statutes.

E. **Severability.** If any section, clause, provision, or portion of this ordinance is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of this ordinance shall not be affected thereby.

F. **Abrogation and Greater Restrictions.** It is not intended by this ordinance to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this ordinance imposes greater restrictions, the provisions of this ordinance shall prevail. All other ordinances inconsistent with this ordinance are hereby repealed to the extent of the inconsistency only.

G. **Definitions.** Unless specifically defined below, words or phrases used in this ordinance shall be interpreted so as to give them the same meaning as they have in common usage and so as to give this ordinance its most reasonable application. For the purpose of this ordinance, the words "must" and "shall" are mandatory and not permissive. All distances, unless otherwise specified, shall be measured horizontally.

1. **Accessory structure or facility.** Any building or improvement subordinate to a principal use which, because of the nature of its use, can reasonably be located at or greater than normal structure setbacks.

2. **Bluff.** A topographic feature such as a hill, cliff, or embankment having all the following characteristics (an area with an average slope of less than 18 percent over a distance of 50 feet or more shall not be considered part of the bluff):

a. Part or all of the feature is located in a shoreland area;

b. The slope rises at least 25 feet above the ordinary high water level of the waterbody;

c. The grade of the slope from the toe of the bluff to a point 25 feet or more above the ordinary high water level averages 30 percent or greater; and

d. The slope must drain toward the waterbody.

3. **Bluff Impact Zone.** A bluff and land located within 20 feet from the top of the bluff.

4. **Boathouse.** A structure designed and used solely for the storage of boats or boating equipment.

5. **Building Line.** The line measured across the width of the lot at the point where the principal structure is placed in accordance with setback provisions.

6. **Commercial Planned Unit Developments.** Uses that provide transient, short-term lodging spaces, rooms, or parcels and their operations are essentially service-oriented. For example, hotel/motel accommodations, resorts, recreational vehicle and camping parks, and other primarily service-oriented activities are commercial planned unit developments.

7. **Commercial Use.** The principal use of land or buildings for the sale, lease, rental or trade of products, goods, and services.

8. **Commissioner.** The Commissioner of the Department of Natural Resources.

9. **Conditional Use.** A land use or development as defined by ordinance that would not be appropriate generally, but may be allowed with appropriate restrictions as provided by official controls upon a finding that certain conditions as detailed in the zoning ordinance exist, the use or development conforms to the comprehensive land use plan of the community, and the use is compatible with the existing neighborhood.

10. **Deck.** A horizontal, unenclosed platform with or without attached railings, seats, trellises, or other features, attached or functionally related to a principal use or site and at any point extending more than three feet above ground.

11. **Duplex, Triplex, and Quad.** A dwelling structure on a single lot, having two, three, and four units, respectively, being attached by common walls and each unit equipped with separate sleeping, cooking, eating, living, and sanitation facilities.

12. **Dwelling Site.** A designated location for residential use by one or more persons using temporary or movable shelter, including camping and recreational vehicle sites.

13. **Dwelling Unit.** Any structure or portion of a structure, or other shelter designed as short or long term living quarters for one or more persons, including rental or timeshare accommodations such as motel, hotel, and resort rooms and cabins.

14. **Extractive Use.** The use of land for surface or subsurface removal of sand, gravel, rock, industrial minerals, other nonmetallic minerals, and peat not regulated under Minn. Stat. Sections 93.44 to 93.51.

15. **Forest Land Conversion.** The clear cutting of forested lands to prepare for a new land use other than re-establishment of a subsequent forest stand.

16. **Guest Cottage.** A structure used as a dwelling unit that may contain sleeping spaces and kitchen and bathroom facilities in addition to those provided in the primary dwelling unit on a lot.

17. **Hardship.** The property in question cannot be put to a reasonable use if used under conditions allowed by the official controls, the plight of the landowner is due to circumstances unique to the property not created by the landowner, and the variance, if granted, will not alter the essential character of the locality. Economic considerations alone shall not constitute an undue hardship if reasonable use for the property exists under the terms of the ordinance. Undue hardship also includes, but is not limited to, inadequate access to direct sunlight for solar energy systems.

18. **Height of Building.** The vertical distance between the highest adjoining ground level at the building or ten (10) feet above the lowest ground level, whichever is lower, and the highest point of a flat roof or average height of the highest gable of a pitched or hipped roof.

19. **Industrial Use.** A permitted, accessory or conditional use allowed in the "I" Industrial District.

20. **Intensive Vegetation Clearing.** The complete removal of trees or shrubs in a continuous patch, strip, row or block.

21. **Lot.** A parcel of land designated by plat, metes and bounds, registered land survey, auditor's plot, or other accepted means and separated from other parcels or portions by said description for the purpose of sale, lease, or separation.

22. **Lot Width.** The shortest distance between lot lines measured at the midpoint of the building line.

23. **Nonconformity.** A legal use, structure or parcel of land already in existence, recorded, or authorized before the adoption of official controls or amendments thereto that would not have been permitted to become established under the terms of the official controls as now written, if the official controls had been in effect prior to the date it was established, recorded or authorized.

24. **Ordinary High Water Level.** The boundary of public waters and wetlands, and shall be an elevation delineating the highest water level which has been maintained for a sufficient period of time to leave evidence upon the landscape, commonly that point where the natural vegetation changes from predominantly aquatic to predominantly terrestrial. For watercourses, the ordinary high water level is the elevation of the top of the band of channel. For reservoirs and flowages, the ordinary high water level is the operating elevation of the normal summer pool.

25. **Planned Unit Development.** A type of development characterized by a unified site design for a number of dwelling units or dwelling sites on a parcel, whether for sale, rent or lease, and also usually involving clustering of these units or sites to provide areas of common open space, density increases, and a mix of structure types and land uses. These developments may be organized and operated as condominiums, time-share condominiums, cooperatives, full fee ownership, commercial enterprises, or any combination of these, or cluster subdivisions of dwelling units, residential condominiums, townhouses, apartment buildings, campgrounds, recreational vehicle parts, resorts, hotels, motels, and conversions of structures and land uses to these uses. (See Section 10.21.)

26. **Public Waters.** Any waters as defined in Minn. Stat. Section 103G.005, Subdivisions 14 and 15 and limited to:

a. All water basins assigned to shoreland management classification by the commissioner pursuant to Section 105.485, except wetlands less than 80 acres in size which are classified as natural environment lakes.

b. All waters of the state which have been finally determined to be public water or navigable waters by a court of competent jurisdiction.

c. All meandered lakes, except for those which have been legally drained.

d. All water basins previously designated by the commissioner for management for a specific purpose such as trout lakes and game lakes pursuant to applicable laws.

e. All water basins designated as scientific and natural areas pursuant to Section 84.033.

f. All water basins located within and totally surrounded by publicly owned lands.

g. All water basins where the State of Minnesota or the federal government holds title to any of the beds or shores, unless the owner declares that the water is not necessary for the purpose of public ownership.

h. All water basins where there is a publicly owned and controlled access which is intended to provide for public access to the water basin; and

i. All natural and altered-natural watercourses with a total drainage area greater than two square miles, except that trout streams officially designated by the commissioner shall be public wastes regardless of the size of their drainage area.

j. All types 3, 4 and 5 wetlands, as defined in United States Fish and Wildlife Service Circular No. 29 (1971 edition), not included within the definition of public water, which are ten or more acres in size in unincorporated area or 2½ or more acres in incorporated area.

27. **Residential Planned Unit Development.** A use where the nature of residency is non-transient and the major or primary focus of the development is not service-oriented. For example, residential apartments, manufactured home parks, time-share condominiums, town-houses, cooperatives, and full fee ownership residences would be considered as residential planned unit developments. To qualify as a residential planned unit development, a development must contain at least five (5) dwelling units or sites.

28. **Semi-Public Use.** The use of land by a private, nonprofit organization to provide a public service that is ordinarily open to some persons outside the regular constituency of the organization.

29. **Sensitive Resource Management.** The preservation and management of areas unsuitable for development in their natural state due to constraints such as shallow soils over groundwater or bedrock, highly erosive or expansive soils, steep slopes, susceptibility to flooding, or occurrence of flora or fauna in need of special protection.

30. **Setback.** The minimum horizontal distance between a structure, sewage treatment system, or other facility and ordinary high water level, sewage treatment system, top of a bluff, road, highway, property line, or other facility.

31. **Sewage Treatment System.** A septic tank and soil absorption system or other individual or cluster type sewage treatment system as described and regulated in Subd. 5H of this section.

32. **Sewer System.** Pipelines or conduits, pumping stations, and force main, and all other construction, devices, appliances, or appurtenances used for conducting sewage or industrial waste or other wastes to a point of ultimate disposal.

33. **Shore Impact Zone.** Land located between the ordinary high water level of a public water and a line parallel to it at a setback of 50 percent of the structure setback.

34. **Shoreland.** Land located within the following distances from public waters; 1,000 feet from the ordinary high water level of a lake, pond, or flowage; and 300 feet from a river or stream, or the landward extent of a flood plain designated by ordinance on a river or stream, whichever is greater. The limits of shorelands may be reduced whenever the

waters involved are bounded by topographic divides which extend landward from the waters for lesser distances and when approved by the Commissioner.

35. **Significant Historic Site.** Any archaeological site, standing structure, or other property that meets the criteria for eligibility to the National Register of Historic Places or is listed in the State Register of Historic Sites, or is determined to be an unplatted cemetery that falls under the provisions of Minn. Stat. Section 307.08. A historic site meets these criteria if it is presently listed on either register or if it is determined to meet the qualifications for listing after review by the Minnesota state archaeologist or the director of the Minnesota Historical Society. All unplatted cemeteries are automatically considered to be significant historic sites.

36. **Steep Slope.** Land where agricultural activity or development is either not recommended or described as poorly suited due to slope steepness and the site's soil characteristics, as mapped and described in available county soil surveys or other technical reports, unless appropriate design and construction techniques and farming practices are used in accordance with the provisions of this ordinance. Where specific information is not available, steep slopes are lands having average slopes over 12 percent, as measured over horizontal distances of 50 feet or more, that are not bluffs.

37. **Structures.** Any building or appurtenance, including decks, except aerial or underground utility lines, such as sewer, electric, telephone, telegraph, gas lines, towers, poles, and other supporting facilities.

38. **Subdivision.** Land that is divided for the purpose of sale, rent, or lease, including planned unit developments.

39. **Surface Water-Oriented Commercial Use.** The use of land for commercial purposes, where access to and use of a surface water feature is an integral part of the normal conductance of business. Marinas, resorts, and restaurants with transient docking facilities are examples of such use.

40. **Toe of the Bluff.** The lower point of a 50-foot segment with an average slope exceeding 18 percent.

a. Terrace. A raised level or series of levels with a vertical or sloping front or sides faced with turf, vegetation, masonry, or like materials. The top of such a construction is sometimes used as a platform, patio, etc.

Source: Ord. 633-2nd Series
Effective Date: 2/29/09

41. **Top of the Bluff.** The higher point of a 50-foot segment with an average slope exceeding 18 percent.

42. **Variance.** A waiver from the literal provisions of the Ordinance in instances where their strict enforcement would cause undue hardship because of circumstances unique to the individual property under consideration, and to grant such variances only when it is demonstrated that such actions will be in keeping with the spirit and intent of the Ordinance.

43. **Water-Oriented Accessory Structure or Facility.** A small, aboveground building or other improvement, except stairways, fences, docks, and retaining walls, which, because of the relationship of its use to a surface water feature, reasonably needs to be located closer to public waters than the normal structure setback. Examples of such structures and facilities include boat houses, gazebos, screen houses, fish houses, pump houses, and detached decks.

44. **Wetland.** A surface water feature classified as a wetland in the United States Fish and Wildlife Service Circular No. 39 (1971 edition).

Subd. 3. **Administration.**

A. **Permits Required.**

1. A permit is required for the construction of buildings or building additions (and including such related activities as construction of decks and signs), the installation and/or alteration of sewage treatment systems, and those grading and filling activities not exempted by Subd. 5C of this section. Application for a permit shall be made to the Building Inspector on the forms provided. The application shall include the necessary information so that the Building Inspector can determine the site's suitability for the intended use and that a compliant sewage treatment system will be provided.

2. A permit authorizing an addition to an existing structure shall stipulate that an identified non-conforming sewage treatment system, as defined by Subd. 5H, shall be reconstructed or replaced in accordance with the provisions of this section.

3. A shoreland alteration permit is required for all work which may include, but is not limited to: filling, grading, digging, cutting of trees, brushing, changing of natural surface, building or installing terraces, retaining walls or sand blankets, ice ridge alteration or constructing whatsoever in the building setback area of shoreland areas of riparian lots. Application for a permit shall be made to the Planning Department on the forms provided. The application shall include the necessary information so that the Planning Department can determine the site's suitability for the intended activity and that it will comply with all criteria and standards.

Source: Ord. 633-2nd Series
Effective Date: 2/09/09

B. Certificate of Zoning Compliance. The Zoning Administrator shall issue a certificate of zoning compliance for each activity requiring a permit as specified in Subd. 3A of this section. This certificate will specify that the use of land conforms to the requirements of this section. Any use, arrangement, or construction at a variance with that authorized by permit shall be deemed a violation of this section and shall be punishable as provided in Subd. 2C of this section.

C. Variances.

1. Variances may only be granted in accordance with Minn. Stat., Chapter 462 as applicable. A variance may not circumvent the general purposes and intent of the section. No variance may be granted that would allow any use that is prohibited in the zoning district in which the subject property is located. Conditions may be imposed in the granting of a variance to ensure compliance and to protect adjacent properties and the public interest. In considering a variance request, the Board of Adjustment and Appeals must also consider whether the property owner has reasonable use of the land without the variance, whether the property is used seasonally or year-round, whether the variance is being requested solely on the basis of economic considerations, and the characteristics of development on adjacent properties.

2. The Board of Adjustments and Appeals shall hear and decide the requests for variances in accordance with the rules that it has adopted for the conduct of business. When a variance is approved after the Department of Natural Resources has formally recommended denial in the hearing record, the notification of the approved variance required in Subd. 3D 2 below shall also include the Board of Adjustments and Appeals summary of the public record/testimony and the findings of facts and conclusions which supported the issuance of the variance.

3. For existing developments, the application for variance must clearly demonstrate whether a conforming sewage treatment system is present for the intended use of the property. The variance, if issued, must require reconstruction of a non-conforming sewage treatment system.

D. Notifications to the Department of Natural Resources.

1. Copies of all notices of any public hearings to consider variances, amendments, or conditional uses under local shoreland management controls must be sent to the Commissioner or the Commissioner's designated representative and postmarked at least ten (10) days before the hearings. Notices of hearings to consider proposed subdivisions/plats must include copies of the subdivisions/plat.

2. A copy of approved amendments and subdivision/plats, and final decisions granting variances or conditional uses under local shoreland management controls must be sent to the Commissioner or the Commissioner's designated representative and postmarked within ten (10) days of final action.

Subd. 4. Shoreland Classification System and Land Use Districts.

A. **Shoreland Classification System.** The public waters of the City of Alexandria have been classified below consistent with the criteria found in Minnesota Regulations, Part 6120.3300, and the Protected Waters Inventory Map for Douglas County, Minnesota. The shoreland area for the waterbodies listed in Subd. 4A1 and Subd. 4A2 shall be defined in Subd. 2G 34 and as shown on the official Zoning Map.

e.	<u>Urban Rivers</u>	<u>Legal Description</u>
	None	None
f.	<u>Tributary Streams</u>	<u>Legal Description</u>
	None	None

B. **Land Use District Application.** The "S" Shoreland District shall apply to and be superimposed upon all zoning districts contained within the Zoning Ordinance and Zoning Map. The regulations and requirements imposed by the "S" Shoreland District shall be in addition to those established for districts which apply. Under joint application, the more restrictive requirements shall apply. In addition to the requirements of this section, all land uses must also comply with the provisions of Section 10 (Zoning Regulations) of the City Code and the Alexandria Zoning Map.

C. **District Boundaries.** The boundaries of the "S" Shoreland District are 1,000 feet from the ordinary high water level of a lake protected water. Intensive vegetation clearing for the removal of invasive species as defined by the MN Department of Natural Resources is allowed with a shoreland alteration permit if an erosion control and sedimentation plan is developed and approved.

Source: Ord. 633-2nd Series
Effective Date: 2/09/09

Subd. 5. **Zoning and Water Supply/Sanitary Provisions.**

A. **Lot Area and Width Standards.** The lot area (in square feet) and lot width standards (in feet) for single, duplex, triplex and quad residential lots created after the date of enactment of this Ordinance for the land and river/stream classifications are the following:

1. Unsewered Lakes
 - a. Natural Environment:

	Riparian Lots		Nonriparian Lots	
	<u>Area</u>	<u>Width</u>	<u>Area</u>	<u>Width</u>
Single	80,000	200	80,000	200
Duplex	120,000	300	160,000	400
Triplex	160,000	400	240,000	600
Quad	200,000	500	320,000	800

b. Recreational Development:

	Riparian Lots		Nonriparian Lots	
	<u>Area</u>	<u>Width</u>	<u>Area</u>	<u>Width</u>
Single	40,000	150	40,000	150
Duplex	80,000	225	80,000	265
Triplex	120,000	300	120,000	375
Quad	160,000	375	160,000	490

c. General Development:

	Riparian Lots		Nonriparian Lots	
	<u>Area</u>	<u>Width</u>	<u>Area</u>	<u>Width</u>
Single	20,000	100	40,000	150
Duplex	40,000	180	80,000	265
Triplex	60,000	260	120,000	375
Quad	80,000	340	160,000	490

2. Sewered Lakes

a. Natural Environment:

	Riparian Lots		Nonriparian Lots	
	<u>Area</u>	<u>Width</u>	<u>Area</u>	<u>Width</u>
Single	40,000	125	20,000	125
Duplex	70,000	225	35,000	220
Triplex	100,000	325	52,000	315
Quad	130,000	425	65,000	410

b. Recreational Development:

	Riparian Lots		Nonriparian Lots	
	<u>Area</u>	<u>Width</u>	<u>Area</u>	<u>Width</u>
Single	20,000	75	15,000	75
Duplex	35,000	135	26,000	135
Triplex	50,000	195	38,000	190
Quad	65,000	255	49,000	245

Source: Ord. 338-2nd Series
 Effective Date: 2/8/93

c. General Development:

	Riparian Lots		Nonriparian Lots	
	<u>Area</u>	<u>Width</u>	<u>Area</u>	<u>Width</u>
Single	15,000	75	12,000	75
Duplex	26,000	135	17,500	135
Triplex	38,000	195	25,000	190
Quad	49,000	255	32,000	245

Source: Ord. 546-2nd Series
Effective Date: 2/14/05

3. River/Stream Lot Width Standards. There is no minimum lot size requirements for rivers and streams. The lot width standards for single, duplex, triplex and quad residential developments for the six (6) river/stream classifications are:

	<u>Remote</u>	<u>Forested</u>	<u>Trans- ition</u>	<u>Agri- cultural</u>	<u>Urban&Tributary No Sewer</u>	<u>Sewer</u>
Single	300	200	250	150	100	75
Duplex	450	300	375	225	150	115
Triplex	600	400	500	300	200	150
Quad	750	500	625	375	250	190

4. Additional Special Provisions.

a. Residential subdivisions with dwelling unit densities exceeding those in the tables in Subd. 5A 2 and Subd. 5A 3 can only be allowed if designed and approved as residential planned unit developments under Subd. 8 of this section. Only land above the ordinary high water level of public waters can be used to meet lot area standards, and lot width standards must be met at both the ordinary high water level and at the building line. The sewer lot area dimensions in Subd. 5A 2 can only be used if publicly owned sewer system service is available to the property.

b. Subdivision of duplexes, triplexes, and quads on Natural Environment Lakes must also meet the following standards:

(1) each building must be set back at least 200 feet from the ordinary high water level;

(2) each building must have common sewage treatment and water systems in one location and serve all dwelling units in the building;

(3) watercraft docking facilities for each lot must be centralized in one location and serve all dwelling units in the building;

(4) no more than 25 percent of a lake's shoreline can be in duplex, triplex, or quad developments.

c. Lots intended as controlled accesses to public waters or as recreation areas for use by owners of nonriparian lots within subdivisions are permissible and must meet or exceed the following standards:

(1) they must meet the width and size requirements for residential lots, and be suitable for the intended uses of controlled access lots.

(2) if docking, mooring, or over-water storage of more than six (6) watercraft is to be allowed at a controlled access lot, then the width of the lot (keeping the same lot depth) must be increased by the percent of the requirements for riparian residential lots for each watercraft beyond six (6), consistent with the following table:

Controlled Access Lot Frontage Requirements

Ratio of lake size to shore length (acres/mile)	Required increase in frontage (percent)
Less than 100	25
100-200	20
201-300	15
301-400	10
Greater than 400	5

(3) they must be jointly owned by all purchasers of lots in the subdivision or by all purchasers of nonriparian lots in the subdivision who are provided riparian access rights on the access lot; and

(4) covenants or other equally effective legal instruments must be developed that specify which lot owners have authority to use the access lot and what activities are allowed. The activities may include watercraft launching, loading, storage, beaching, mooring, or docking. They must also include other outdoor recreational activities that do not significantly conflict with general public use of the public water or the enjoyment of normal property rights by adjacent property owners. Examples of the non-significant conflict activities include swimming, sunbathing, or picnicking. The covenants must limit the total number of vehicles allowed to be parked and the total number of watercraft allowed to be continuously moored, docked, or stored over water, and must require centralization of all common facilities and activities in the most suitable locations on the lot to minimize topographic and vegetation alterations. They must also require all parking areas, storage buildings, and other facilities to be screened by vegetation or topography as much as practical from view from the public water, assuming summer, leaf-on conditions.

B. Placement, Design, and Height of Structures.

1. Placement of Structures on Lots. When more than one setback applies to a site, structures and facilities must be located to meet all setbacks. Where structures existing on the adjoining lots on both sides of a proposed building site, structure setbacks may be altered without a variance to conform to the adjoining setbacks from the ordinary high water level, provided the proposed building site is not located in a shore impact zone or in a bluff impact zone. Structures shall be located as follows:

a. Structure and On-site Sewage System Setbacks (in feet) from Ordinary High Water Level*.

<u>Classes of Public Waters Lakes</u>	<u>Structures</u>		<u>Sewage Treatment System</u>
	<u>Unsewered</u>	<u>Sewered</u>	
Natural Environment	150	150	150
Recreational Development	100	75	75
General Development	75	50	50

Rivers

Remote	200	200	150
Forested and Transition	150	150	100
Agricultural, Urban & Tributary	100	50	75

*One water-oriented accessory structure designed in accordance with Subd. 5B 2(b) of this section may be set back a minimum distance of ten (10) feet from the ordinary high water level.

b. Additional Structure Setbacks. The following additional structure setbacks apply, regardless of the classification of the waterbody:

<u>Setback From:</u>	<u>Setback (in feet)</u>
(1) top of bluff;	30
(2) unplatted cemetery;	50
(3) right-of-way line of federal, state, or county highway; and	50
(4) right of way line of town road, public street, or other roads or streets not classified.	30

c. Bluff Impact Zones. Structures and accessory facilities, except stairways and landings, must not be placed within bluff impact zones.

d. Uses Without Water-Oriented Needs. Uses without water-oriented needs must be located on lots or parcels with public waters frontage, must either be set back double the normal ordinary high water level setback or be substantially screened from view from the water by vegetation or topography, assuming summer, leaf-on conditions.

2. Design Criteria For Structures.

a. High Water Elevations. Structures must be placed in accordance with any floodplain regulations applicable to the site. Where these controls do not exist, the elevation to which the lowest floor, including basement, is placed or flood-proofed must be determined as follows:

(1) for lakes, by placing the lowest floor at least three (3) feet above the highest known water level, or three (3) feet above the ordinary high water level, whichever is higher;

(2) for rivers and streams, by placing the lowest floor at least three (3) feet above the flood of record, if data are available. If data are not available, by placing the lowest floor at least three (3) feet above the ordinary high water level, or by conducting a technical evaluation to determine effects of proposed construction upon flood stages and flood flows and to establish a flood protection elevation. Under all three (3) approaches, technical evaluations must be done by a qualified engineer or hydrologist consistent with parts 6120.5000 to 6120.6200 governing the management of flood plain areas. If more than one approach is used, the highest flood protection elevation determined must be used for placing structures and other facilities; and

(3) water-oriented accessory structures may have the lowest floor placed lower than the elevation determined in this item if the structure is constructed of flood-resistant materials to the elevation, electrical and mechanical equipment is placed above the elevation and, if long duration flooding is anticipated, the structure is built to withstand ice action and wind-driven waves and debris.

b. Water-Oriented Accessory Structures. Each lot may have one water-oriented accessory structure not meeting the normal structure setback in Subd. 5B 1 of this ordinance if this water-oriented accessory structure complies with the following provisions and is approved as a conditional use permit as set forth in Section 10.23 of the City Code:

(1) the structure or facility must not exceed ten (10) feet in height, exclusive of safety rails, and cannot occupy an area greater than 250 square feet. Detached decks must not exceed eight (8) feet above grade at any point;

(2) the setback of the structure or facility from the ordinary high water level must be at least ten (10) feet;

(3) the structure or facility must be treated to reduce visibility as viewed from public waters and adjacent shorelands by vegetation, topography, increased setbacks or color, assuming summer, leaf-on conditions;

(4) the roof may be used as a deck with safety rails, but must not be enclosed or used as a storage area;

(5) the structure or facility must not be designed or used for human habitation and must not contain water supply or sewage treatment facilities; and

(6) as an alternative for general development and recreational development waterbodies, water-oriented accessory structures used solely for watercraft storage, and including storage of related boating and water-oriented sporting equipment, may occupy an area up to 400 square feet provided the maximum width of the structure is 20 feet as measured parallel to the configuration of the shoreline.

c. Stairways, Lifts and Landings. Stairways and lifts are the preferred alternative to major topographic alterations for achieving access up and down bluffs and steep slopes to shore areas. Stairways and lifts must meet the following design requirements:

(1) stairways and lifts must not exceed four (4) feet in width on residential lots. Wider stairways may be used for commercial properties, public open-space recreational properties, and planned unit developments;

(2) landings for stairways and lifts on residential lots must not exceed 32 square feet in area. Landings larger than 32 square feet may be used for commercial properties, public open-space recreational properties, and planned unit developments;

(3) canopies or roofs are not allowed on stairways, lifts, or landings;

(4) stairways, lifts, and landings may be either constructed above the ground on posts or pilings, or placed into the ground, provided they are designed and built in a manner that ensures control or soil erosion;

(5) stairways, lifts, and landings must be located in the most visually inconspicuous portions of lots, as viewed from the surface of the public water assuming summer, leaf-on conditions, whenever practical; and

(6) facilities such as ramps, lifts, or mobility paths for physically handicapped persons are also allowed for achieving access to shore areas, provided that the dimensional and performance standards of sub-items (1) to (5) are complied with in addition to the requirements of Minnesota Regulations, Chapter 1340.

d. Significant Historic Sites. No structure may be placed on a significant historic site in a manner that affects the values of the site unless adequate information about the site has been removed and documented in a public repository.

e. Steep Slopes. The Building Inspector must evaluate possible soil erosion impacts and development visibility from public waters before issuing a permit for construction of sewage treatment systems, roads, driveways, structures, or other improvements on steep slopes. When determined necessary, conditions must be attached to issued permits to prevent erosion and to preserve existing vegetation screening of structures, vehicles, and other facilities as viewed from the surface of public waters, assuming summer, leaf-on vegetation.

3. Height of Structures. All structures in residential districts, except churches and nonresidential agricultural structures, must not exceed 25 feet in height.

C. **Shoreland Alterations.** Alterations of vegetation and topography will be regulated to prevent erosion into public waters, fix nutrients, preserve shoreland aesthetics, preserve historic values, prevent bank slumping, and protect fish and wildlife habitat.

1. Vegetation Alterations.

a. Vegetation alteration necessary for the construction of structures and sewage treatment systems and the construction of roads and parking areas regulated by Subd. 5D of this section are exempt from the vegetation alteration standards that follow:

b. Removal or alteration of vegetation, except for agricultural and forest management uses as regulated in Subd. 5F2 and Subd. 5F3 respectively, is allowed subject to the following standards:

(1) Intensive vegetation clearing within the shore and bluff impact zones and on steep slopes is not allowed. Intensive vegetation clearing for forest land conversion to another use outside of these areas is allowable as a condition use if an erosion control and sedimentation plan is developed and approved by the soil and water conservation district in which the property is located.

(2) In shore and bluff impact zones and on steep slopes, limited clearing of trees and shrubs and cutting, pruning, and trimming of trees is allowed to provide a view to the water from the principal dwelling site and to accommodate the placement of stairways and landings, picnic areas, access paths, livestock watering areas, beach and watercraft access areas, and permitted water-oriented accessory structures or facilities, provided that:

(a) the screening of structures, vehicles, or other facilities as viewed from the water, assuming summer, leaf-on conditions, is not substantially reduced;

(b) along rivers, existing shading of water surface is preserved; and

(c) the above provisions are not applicable to the removal of trees, limbs, or branches that are dead, diseased, or pose safety hazards.

(3) The use of fertilizer and pesticides in the "S" Shoreland District must be done in such a way as to minimize runoff into the shore impact zone or public water by the use of earth, vegetation or both.

2. Topographic Alterations/Grading and Filling.

a. Grading and filling and excavations necessary for the construction of structures, sewage treatment systems, and driveways under validly issued construction permits for these facilities do not require the issuance of a separate grading and filling permit. However, the grading and filling standards in this subsection must be incorporated into the issuance of permits for construction of structures, sewage treatment systems, and driveways.

b. Public roads and parking areas are regulated by Subd. 5D of this ordinance.

c. Notwithstanding items (a) and (b) above, a grading and filling permit will be required for:

(1) the movement of more than ten (10) cubic yards of material on steep slopes or within shore or bluff impact zones; and

(2) the movement of more than 50 cubic yards of material outside of steep slopes and shore and bluff impact zones.

d. The following considerations and conditions must be adhered to during the issuance of construction permits, grading and filling permits, conditional use permits, variances and subdivision approvals:

Source: Ord 338-2nd Series
Effective Date: 2/8/93

(1) No grading is allowed in bluff impact zones. Grading is allowed on steep slopes provided such grading meets the standards set forth in Section 10.20, Subdivision 5C2d.

(2) Grading or filling in any type 2, 3, 4, 5, 6, 7, or 8 wetland must be evaluated to determine how extensively the proposed activity would affect the following functional qualities of the wetland*:

(a) sediment and pollutant trapping and retention;

(b) storage of surface runoff to prevent or reduce flood damage;

(c) fish and wildlife habitat;

(d) recreational use;

(e) shoreline or bank stabilization; and

(f) noteworthiness, including special qualities such as historic significance, critical habitat for endangered plants and animals, or others.

*This evaluation must also include a determination of whether the wetland alteration being proposed requires permits, reviews, or approvals by other local, state or federal agencies such as watershed district, the Minnesota Department of Natural Resources, the United States Army Corps of Engineers, and the City of Alexandria.

(3) Alterations must be designed and conducted in a manner that ensures only the smallest amount of bare ground is exposed for the shortest time possible;

(4) Mulches or similar materials must be used, where necessary, for temporary bare soil coverage, and a permanent vegetation cover must be established as soon as possible;

(5) Methods to minimize soil erosion and to trap sediments before they reach any surface water feature must be used;

(6) Altered areas must be stabilized to acceptable erosion control standards consistent with the field office technical guides of the local soil and water conservation districts and the United States Soil Conservation Service;

(7) Fill or excavated material must not be placed in a manner that creates an unstable slope;

(8) Plans to place fill or excavated material on steep slopes must be reviewed by qualified professionals for continued slope stability and must not create finished slopes of 30 percent or greater;

(9) Fill or excavated material must not be placed in bluff impact zones;

(10) Any alterations below the ordinary high water level of public water must first be authorized by the Commissioner under Minn. Stat. §103G.245;

(11) Alterations of topography must only be allowed if they are accessory to permitted or conditional uses and do not adversely affect adjacent or nearby properties; and

(12) Placement of natural rock riprap, including associated grading of the shoreline and placement of a filter blanket, is permitted if the finished slope does not exceed three (3) feet horizontal to one (1) foot vertical, the landward extent of the riprap is within ten (10) feet of the ordinary high water level, and the height of the riprap above the ordinary high water level does not exceed three (3) feet.

Source: Ord. 338-2nd Series

Effective Date: 2/08/93

(13) Application of fertilizer, herbicides, pesticides or other chemicals within shorelands must be done in such a manner as to eliminate impact on the shore impact zone or public water by the use of earth or vegetation. Use of fertilizer containing phosphorus is prohibited within 50 feet of the ordinary high water level of a public water.

(14) Burning is prohibited within 100 feet of the ordinary high water level of a public water and/or a storm sewer or other drainage conveyance which discharges into waters of the state. (A wood-burning campfire less than three feet in diameter, designed to enclose ash for removal is exempt.)

Source: Ord. 448-2nd Series

Effective Date: June 12, 2000

e. Connections to Public Waters. Excavations where the intended purpose is connection to a public water, such as boat slips, canals, lagoons, and harbors, must be controlled by local shoreland controls. Permission for excavations may be given only after the commissioner has approved the proposed connection to public waters.

D. Placement and Design of Roads, Driveways, and Parking Areas.

1. Public and private roads and parking areas must be designed to take advantage of natural vegetation and topography to achieve maximum screening from view from public waters. Documentation must be provided by a qualified individual that all roads and parking areas are designed and constructed to minimize and control erosion to public waters consistent with the

field office technical guides of the local soil and water conservation district, or other applicable technical materials.

2. Roads, driveways, and parking areas must meet structure setbacks and must not be placed within bluff and shore impact zones, when other reasonable and feasible placement alternatives exist. If no alternatives exist, they may be placed within these areas, and must be designed to minimize adverse impacts.

3. Public and private watercraft access, approach roads, and access-related parking areas may be placed within shore impact zones provided the vegetative screening and erosion control conditions of this subpart are met. For private facilities, the grading and filling provisions of Subd. 5C2 of this section must be met.

E. Stormwater Management. The following general and specific standards shall apply:

1. General Standards.

a. When possible, existing natural drainageways, wetlands, and vegetated soil surfaces must be used to convey, store, filter, and retain stormwater runoff before discharge to public waters.

b. Development must be planned and conducted in a manner that will minimize the extent of disturbed areas, runoff velocities, erosion potential, and reduce the delay runoff volumes. Disturbed areas must be stabilized and protected as soon as possible and facilities or methods used to retain sediment on the site.

c. When development density, topographic features, and soil and vegetation conditions are not sufficient to adequately handle stormwater runoff using natural features and vegetation, various types of constructed facilities such as diversions, settling basins, skimming devices, dikes, waterways, and ponds may be used. Preference must be given to designs using surface drainage, vegetation, and infiltration rather than buried pipes and manmade materials and facilities.

F. Special Provisions for Commercial, Industrial, Public/Semipublic, Agricultural, Forestry and Extractive Uses and Mining of Metallic Minerals and Peat.

1. Standards for Commercial, Industrial, Public and Semipublic Uses.

a. All industrial uses proposed in the "I-1" or "I-2" zoning districts and located in the "S" Shoreland District require a conditional use permit in accordance with the procedures and findings set forth in Section 10.2D, Subd. 5G and Section 10.21 of the City Code.

b. Surface water-oriented commercial uses and industrial, public, or semipublic uses with similar needs to have access to and use of public waters may be located on parcels or lots with frontage on public waters. Those uses with water-oriented needs must meet the following standards:

(1) in addition to meeting impervious coverage limits, setbacks, and other zoning standards in this section, the uses must be designed to incorporate topographic and vegetative screening of parking areas and structures;

(2) uses that require short-term watercraft mooring for patrons must centralize these facilities and design them to avoid obstructions and navigation and to be the minimum size necessary to meet the need; and

(3) uses that depend on patrons arriving by watercraft may use signs and lighting to convey needed information to the public, subject to the following general standards:

(a) no advertising signs or supporting facilities for signs may be placed in or upon public waters. Signs conveying information or safety messages may be placed in or on public waters by a public authority or under a permit issued by the county sheriff;

(b) signs may be placed, when necessary, within the shore impact zone if they are designed and sized to be the minimum necessary to convey needed information. They must only convey the location and name of the establishment and the general types of goods or services available. The signs must not contain other detailed information such as product brands and prices, must not be located higher than ten (10) feet in size. If illuminated by artificial lights, the lights must be shielded or directed to prevent illumination out across public waters; and

c. Uses without water-oriented needs must be located on lots or parcels without public waters frontage, or, if located on lots or parcels with public waters frontage, must either be set back double the normal ordinary high water level setback or be substantially screened from view from the water by vegetation or topography, assuming summer, leaf-on conditions.

2. Agricultural Use Standards.

a. General cultivation farming, grazing, nurseries, horticulture, truck farming, sod farming, and wild crop harvesting are permitted uses if steep slopes and shore and bluff impact zones are maintained in permanent vegetation or operated under an approved conservation plan (Resource Management Systems) consistent with the field office technical guides of the local soil and water conservation districts or the United States Soil Conservation Service, as provided by a qualified individual or agency. The shore impact zone for parcels with permitted agricultural land uses is equal to a line parallel to and 50 feet from the ordinary high water level.

b. Animal feedlots must meet the following standards:

(1) new feedlots must not be located in the shoreland of watercourses or in bluff impact zones and must meet a minimum setback of 300 feet from the ordinary high water level of all public waters basins; and

(2) modifications or expansions to existing feedlots that are located within 300 feet of the ordinary high water level or within a bluff impact zone are allowed if they do not further encroach into the existing ordinary high water level setback or encroach on bluff impact zones.

3. Forest Management Standards. The harvesting of timber and associated reforestation must be conducted consistent with the provisions of the Minnesota Nonpoint Source Pollution Assessment-Forestry and the provisions of Water Quality in Forest Management "Best Management Practices in Minnesota."

4. Extractive Use Standards.

a. Site Development and Restoration Plan. An extractive use site development and restoration plan must be developed, approved, and followed over the course of operation

of the site. The plan must address dust, noise, possible pollutant discharges, hours and duration of operation, and anticipated vegetation and topographic alterations. It must also identify actions to be taken during operation to mitigate adverse environmental impacts, particularly erosion, and must clearly explain how the site will be rehabilitated after extractive activities end.

b. Setbacks for Processing Machinery. Processing machinery must be located consistent with setback standards for structures from ordinary high water levels of public waters from bluffs.

5. Mining of Metallic Minerals and Peat. Mining of metallic minerals and peat, as defined in Minn. Stat. §93.44 to §93.51, are satisfied.

G. **Conditional Uses.** Conditional uses allowable within shoreland areas shall be subject to the review and approval procedures, and criteria and conditions for review of conditional uses established under Section 10.21 of this Ordinance. The following additional evaluation criteria and conditions apply within shoreland areas:

1. Evaluation Criteria. A thorough evaluation of the waterbody and the topographic, vegetation, and soils conditions on the site must be made to ensure:

a. the prevention of soil erosion or other possible pollution of public waters, both during and after construction;

b. the visibility of structures and other facilities as viewed from public waters is limited;

c. the site is adequate for water supply and on-site sewage treatment; and

d. the types, uses, and numbers of watercraft that the project will generate are compatible in relation to the suitability of public waters to safely accommodate these watercraft.

2. Conditions attached to conditional use permits. The Alexandria City Council, upon consideration of the criteria listed above and the purposes of this section, shall attach such conditions to the issuance of the conditional use permits as

it deems necessary to fulfill the purposes of this section. Such conditions may include, but are not limited to, the following:

a. increased setbacks from the ordinary high water level;

b. limitations on the natural vegetation to be removed or the requirement that additional vegetation be planted; and

c. special provisions for the location, design, and use of structures, sewage treatment systems, watercraft launching and docking areas, and vehicle parking areas.

H. Water Supply and Sewage Treatment.

1. Water Supply. Any premises used for human occupancy must be provided with an adequate water supply method as follows:

a. Any private or public water supply of water for domestic purposes must meet or exceed standards for water quality of the Minnesota Department of health and the Minnesota Pollution Control Agency.

b. Private wells must be located, constructed, maintained and sealed in accordance with or in a more thorough manner than the Water Well Construction Code of the Minnesota Department of Health.

2. Sewage Treatment. Any premises used for human occupancy must be provided with an adequate method of sewage treatment, as follows:

a. Publicly-owned sewer systems must be used where available.

b. All private sewage treatment systems must meet or exceed the Minnesota Pollution Control Agency's standards for individual sewage treatment systems contained in the document titles, "Individual Sewage Treatment Systems Standards, Chapter 7080", a copy of which is hereby adopted by reference and declared to be a part of this section.

c. On-site sewage treatment systems must be set back from the ordinary high water level in accordance with the setbacks contained in Section 5B1 of this section.

d. All proposed sites for individual sewage treatment systems shall be evaluated in accordance with the criteria in subitems (1) - (4). If the determination of a site's suitability cannot be made with publicly available existing information, it shall then be the responsibility of the applicant to provide sufficient soil borings and percolation tests from on-site field investigations. The evaluation criteria are:

(1) depth to the highest known or calculated ground water table or bedrock;

(2) soil conditions, properties, and permeability;

(3) slope;

(4) the existence of lowland, local surface depressions, and rock outcrops;

e. Nonconforming sewage treatment systems shall be regulated and upgraded in accordance with Subd. 6A3 of this section.

Subd. 6. **Nonconformities.** All legally established nonconformities as of the date of this ordinance may continue, but they will be managed according to applicable state statutes and Section 10.03, Subd. 1 of the City Code; except that the following standards will also apply in shoreland areas:

A. Construction on Nonconforming Lots of Record.

1. Lots of record in the Office of the Douglas County Recorder on the date of enactment of local shoreland controls that do not meet the requirements of Subd. 5A of this section may be allowed as building sites without variances from lot size requirements provided the use is permitted in the zoning district, the lot has been in separate ownership from abutting lands at all times since it became substandard, was created compliant with official controls in effect at the time, and sewage treatment and setback requirements of this ordinance are met.

2. A variance from setback requirements must be obtained before any use, sewage treatment system, or building permit is issued for a lot. In evaluating the variance, the Board of Adjustment and Appeals shall consider sewage treatment and water supply capabilities or constraints of the lot and shall deny the variance if adequate facilities cannot be provided.

3. If, in a group of two or more contiguous lots under the same ownership, any individual lot does not meet the requirements of Subd. 5A of this section the lot must not be considered as a separate parcel of land for the purposes of sale or development. The lot must be combined with one or more contiguous lots so they equal one or more parcels of land, each meeting the requirements of Subd. 5A of this section as much as possible.

B. Additions/Expansions to Nonconforming Structures.

1. All additions or expansions to the outside dimensions of an existing nonconforming structure must meet the setback, height, and other requirements of Subd. 5 of this ordinance. Any deviation from these requirements must be authorized by a variance pursuant to Subd. 3C of this section.

2. Deck additions may be allowed without a variance to a structure not meeting the required setback from the ordinary high water level if all of the following criteria and standards are met:

a. the structure existed on the date the structure setbacks were established;

b. a thorough evaluation of the property and structure reveals no reasonable location for a deck meeting or exceeding the existing ordinary high water level setback of the structure:

c. the deck encroachment toward the ordinary high water level does not exceed 15 percent of the existing setback of the structure from the ordinary high water level or does not encroach closer than 30 feet, whichever is more restrictive; and

d. the deck is constructed primarily of wood, and is not roofed or screened.

C. Nonconforming Sewage Treatment Systems.

1. A sewage treatment system not meeting the requirement of Subd. 5H of this section must be upgraded, at a minimum, at any time a permit or variance of any type is required for any improvement on, or use of, the property. For the purposes of this provision, a sewage treatment system shall not be considered

nonconforming if the only deficiency is the sewage treatment system's improper setback from the ordinary high water level.

2. The City Council of the City of Alexandria has by formal resolution notified the commissioner of its program to identify nonconforming sewage treatment systems. The City of Alexandria will require upgrading or replacement of any nonconforming system identified by this program within a reasonable period of time which will not exceed two (2) years. Sewage systems installed according to all applicable local shoreland management standards adopted under Minn. Stat. §105.485, in effect at the time of installation may be considered as conforming unless they are determined to be failing, except that systems using cesspools, leaching pits, seepage pits, or other deep disposal methods, or systems with less soil treatment area separation above groundwater than required by the Minnesota Pollution Control Agency's Chapter 7080 for design of on-site sewage treatment systems, shall be considered nonconforming.

Subd. 7 Subdivision/Platting Provisions.

A. **Land Suitability.** Each lot created through subdivision, including planned unit developments authorized under Subd. 8 of this section, must be suitable in its natural state for the proposed use with minimal alteration. Suitability analysis by the local unit of government shall consider susceptibility to flooding, existence of wetlands, soil and rock formations with severe limitations for development, severe erosion potential, steep topography, inadequate water supply or sewage treatment capabilities, near-shore aquatic conditions unsuitable for water-based recreation, important fish and wildlife habitat, presence of significant historic sites, or any other feature of the natural land likely to be harmful to the health, safety, or welfare of future residents of the proposed subdivision or of the community.

B. **Consistency with Other Controls.** Subdivisions must conform to all official controls of this community. A subdivision will not be approved where a later variance from one or more standards in official controls would be needed to use the lots for their intended purpose. In areas not served by publicly owned sewer and water systems, a subdivision will not be approved unless domestic water supply is available and sewage treatment system consistent with Subd. 5B and 5H can be provided for every lot. Each lot shall meet the minimum lot size and dimensional requirements of Subd. 5A, including at least a minimum contiguous lawn area, that is free of limiting factors sufficient for the construction of two standard soil treatment systems. Lots that would require use of

holding tanks must not be approved.

C. Information Requirements. Sufficient information must be submitted by the applicant for the City to make a determination of land suitability. The information shall include at least the following:

(1) topographic contours at ten (10) foot intervals or less from United States Geological Survey maps or more accurate sources, showing limiting site characteristics;

(2) the surface water features required in Minn. Stat. §505.02, Subd. 1, to be shown on plats, obtained from United States Geological Survey quadrangle topographic maps or more accurate sources;

(3) adequate soils formation to determine suitability for building and on-site sewage treatment capabilities for every lot from the most current existing sources or from field investigations such as soil borings, percolation tests, or other methods;

(4) information regarding adequacy of domestic water supply; extent of anticipated vegetation and topographic alterations; near-shore aquatic conditions, including depths, types of bottom sediments, and aquatic vegetation; and proposed methods for controlling stormwater runoff and erosion, both during and after construction activities;

(5) location of 100 year flood plain areas and floodway districts from existing adopted maps or data; and

(6) a line or contour representing the ordinary high water level, the "toe" and the "top" of bluffs, and the minimum building setback distances from the top of the bluff and the lake or stream.

D. Dedications. When a land or easement dedication is a condition of subdivision approval, the approval must provide easements over natural drainage or ponding areas for management of stormwater and significant wetlands.

E. Platting. All subdivisions that create two (2) or more lots or parcels that are five (5) acres or less in size shall be processed as a plat in accordance with Minnesota Statutes, Chapter 505 and Section 11 of this Ordinance. No permit for construction of buildings or sewage treatment systems shall be

issued for lots created after these official controls were enacted unless the lot was approved as part of a formal subdivision.

F. **Controlled Access or Recreational Lots.** Lots intended as controlled accesses to public waters or for recreational use areas for use by nonriparian lots within a subdivision must meet or exceed the sizing criteria in Subd. 5A4 of this section.

Subd. 8. **Planned Unit Developments (PUD's).**

A. **Types of PUD's Permissible.** Planned Unit Developments (PUD's) are allowed for new projects on undeveloped land, redevelopment of previously built sites, or conversions of existing buildings and land. The land use districts in which they are an allowable use are identified in the land use district descriptions in Subd. 4B of this section and the official zoning map.

B. **Processing PUD's.** Planned Unit Developments must be processed as a conditional use, except that an expansion to an existing commercial PUD involving 6 or less new dwelling units or sites since the date this ordinance was adopted is permissible as a permitted use provided the total project density does not exceed the allowable densities calculated in the project density evaluation procedures in Subd. 8E. Approval cannot occur until the environmental review process (EAW/EIS) is complete.

C. **Application for a PUD.** The applicant for a PUD must submit the following documents prior to final action being taken on the application request:

1. A site plan and/or plat for the projects showing locations of property boundaries, surface water features, existing and proposed structures and other facilities, land alterations, sewage treatment and water supply systems (where public systems will not be provided), topographic contours at ten-foot intervals or less. When a PUD is a combined commercial and residential development, the site plan and/or plat must indicate and distinguish which buildings and portions of the project are residential, commercial, or a combination of the two.

2. A property owners association agreement (for residential PUD's) with mandatory membership, and all in accordance with the requirements of Subd. 8F of this section.

3. Deed restrictions, covenants, permanent easements or other instruments that: 1) properly address future

vegetative and topographic alterations, construction of additional buildings, beaching of watercraft, and construction of commercial buildings in residential PUD's; and 2) ensure the long-term preservation and maintenance of open space in accordance with the criteria and analysis specified in Subd. 8F of this section.

4. When necessary, a master plan/drawing describing the project and the floor plan for all commercial structures to be occupied.

5. Those additional documents as requested by the Zoning Administrator that are necessary to explain how the PUD will be designed and will function.

6. A Zoning District Amendment is required as set forth in Section 10.21 of the City Code.

D. **Site "Suitable Area" Evaluation.** Proposed new or expansions to existing planned unit developments must be evaluated using the following procedures and standards to determine the suitable area for the dwelling unit/dwelling site density evaluation in Subd. 8E.

1. The project parcel must be divided into tiers by locating one or more lines approximately parallel to a line that identifies the ordinary high water level at the following intervals, proceeding landward.

Shoreland Tier Dimensions

	Unsewered (feet)	Sewer (feet)
General development lakes-first tier	200	200
General development lakes-second and additional tiers	267	200
Recreational development lakes	267	267
Natural environmental lakes	400	320
All river classes	300	300

2. The suitable area within each tier is next calculated by excluding from the tier area all wetlands, bluffs, or land below the ordinary high water level of public waters. This suitable area and the proposed project are then subjected to either the residential or commercial planned unit development density evaluation steps to arrive at an allowable number of dwelling units or sites.

E. Residential and Commercial PUD Density

Evaluation. The procedures for determining the "base" density of a PUD and density increase multiplier are as follows. Allowable densities may be transferred from any tier to any other tier further from the waterbody, but must not be transferred to any other tier closer.

1. Residential PUD "Base" Density Evaluation. The suitable area within each tier is divided up by the single residential lot size standard for lakes or, for rivers, the single residential lot width standard times the tier depth, unless the local unit of government has specified an alternative minimum lot size for rivers which shall then be used to yield a base density of dwelling units or sites for each tier. Proposed locations and numbers of dwelling units or sites for the residential planned unit developments are then compared with the tier, density, and suitability analyses herein and the design criteria in Subd. 8F.

2. Commercial PUD "Base" Density Evaluation:

a. Determine the average inside living area size of dwelling units or sites within each tier, including both existing and proposed units and sites. Computation of inside living area sizes need not include decks, patios, stoops, steps, garages, or porches and basements, unless they are habitable space.

b. Select the appropriate floor area ratio from the following table:

Commercial Planned Unit Development
Floor Area Ratios*
Public waters classes

*Average unit floor area (sq. ft.)	Sewered general development lakes; first tier on unsewered general development lakes; urban, agricultural, tributary river segments	Second and additional tiers on unsewered general development lakes; recreational development lakes; transition & forested river segments	Natural environment lakes and remote river segments
200	.040	.020	.010
300	.048	.024	.012

400	.056	.028	.014
500	.065	.032	.016
600	.072	.038	.019
700	.082	.042	.021
800	.091	.046	.023
900	.099	.050	.025
1,000	.108	.054	.027
1,100	.116	.058	.029
1,200	.125	.064	.032
1,300	.133	.068	.034
1,400	.142	.072	.036
1,500	.150	.075	.038

*For average unit floor areas less than shown, use the floor area ratios listed for 200 square feet. For areas greater than shown, use the ratios listed for 1,500 square feet. For recreational camping areas, use the ratios listed at 400 square feet. Manufactured home sites in recreational camping areas shall use a ratio equal to the size of the manufactured home or if unknown, the ratio listed for 1,000 square feet.

c. Multiply the suitable area within each tier by the floor area ratio to yield total floor area for each tier allowed to be used for dwelling units or site.

d. Divide the total floor area by tier computed in Item C above by the average inside living areas size determined in Item A above. This yields a base number of dwelling units and sites for each tier.

e. Proposed locations and numbers of dwelling units or sites for the commercial planned unit development are then compared with the tier, density and suitability analyses herein and the design criteria in Subd. 8F.

3. Density Increase Multipliers:

a. Increases to the dwelling unit or dwelling site base densities previously determined are allowable if the dimensional standards in Subd. 5 are met or exceeded and the design criteria in Subd. 8F are satisfied. The allowable density increases in Item (b) below will only be allowed if structure setbacks from the ordinary high water level are increased to at least 50 percent greater than the minimum setback, or the impact on the waterbody is reduced an equivalent amount through vegetative management, topography, or additional means acceptable to the local unit of government and the setback is at least 25 percent greater

than the minimum setback.

b. Allowable Dwelling Unit or Dwelling Site Density Increases for Residential or Commercial Planned Unit Developments:

<u>Density Evaluation Tiers</u>	<u>Maximum Density Increase Within Each Tier (Percent)</u>
First	50%
Second	100%
Third	200%
Fourth	200%
Fifth	200%

F. Maintenance and Design Criteria.

1. Maintenance and Administration Requirements.

a. Before final approval of a planned unit development, adequate provisions must be developed for preservation and maintenance in perpetuity of open spaces and for the continued existence and functioning of the development.

b. Open space preservation. Deed restrictions, covenants, permanent easements, public dedication and acceptance, or other equally effective and permanent means must be provided to ensure long-term preservation and maintenance of open space. The instruments must include all of the following protections:

(1) commercial uses prohibited (for residential PUD's);

(2) vegetation and topographic alterations other than routine maintenance prohibited;

(3) construction of additional buildings or storage of vehicles and other materials prohibited; and

(4) uncontrolled beaching of watercraft prohibited.

c. Development organization and functioning. Unless an equally effective alternative community

framework is established, when applicable, all residential planned unit developments must use an owners association with the following features:

(1) membership must be mandatory for each dwelling unit or site purchaser and any successive purchasers;

(2) each member must pay a pro rata share of the association's expenses, and unpaid assessments can become liens on units or sites;

(3) assessments must be adjustable to accommodate changing conditions; and

(4) the association must be responsible for insurance, taxes, and maintenance of all commonly owned property and facilities.

2. Open Space Requirements. Planned unit developments must contain open space meeting all of the following criteria:

a. at least 50 percent of the total project area must be preserved as open space;

b. dwelling units or sites, road right-of-ways, or land covered by road surfaces, parking areas, or structures, except water-oriented accessory structures or facilities, are developed areas and shall not be included in the computation of minimum open space;

c. open space must include areas with physical characteristics unsuitable for development in their natural state, and areas containing significant historic sites or unplatted cemeteries;

d. open space may include outdoor recreational facilities for use by owners of dwelling units or sites, by guests staying in commercial dwelling units or sites, and by the general public;

e. open space may include subsurface sewage treatment systems if the use of the space is restricted to avoid adverse impacts on the systems;

f. open space must not include commercial facilities or uses, but may contain water-oriented accessory structures or facilities;

g. the appearance of open space areas, including topography vegetation, and allowable uses, must be preserved by use of restrictive deed covenants, permanent easements, public dedication and acceptance, or other equally effective and permanent means; and

h. the shore impact zone, based on normal structure setbacks, must be included as open space. For residential PUD's, at least 50 percent of the shore impact zone area of existing developments or at least 70 percent of the shore impact zone area of new developments must be preserved in its natural or existing state. For commercial PUD's, at least 50 percent of the shore impact zone must be preserved in its natural state.

3. Erosion Control and Stormwater Management. Erosion control and stormwater management plans must be developed and the PUD must:

a. be designed, and the construction managed, to minimize the likelihood of serious erosion occurring either during or after construction. This must be accomplished by limiting the amount and length of time of bare ground exposure. Temporary ground covers, sediment entrapment facilities, vegetated buffer strips, or other appropriate techniques must be used to minimize erosion impacts on surface water features. Erosion control plans approved by a soil and water conservation district may be required if project size and site physical characteristics warrant; and

b. be designed and constructed to effectively manage reasonably expected quantities and qualities of stormwater runoff. Impervious surface coverage within any tier must not exceed 25 percent of the tier area, except that for commercial PUD's 35 percent impervious surface coverage may be allowed in the first tier of general development lakes with an approved stormwater management plan and consistency with Subd. 5C.

4. Centralization and Design of Facilities. Centralization and design of facilities and structures must be done according to the following standards:

a. planned unit developments must be connected to publicly owned water supply and sewer systems, if

available. On-site water supply and sewage treatment systems must be centralized and designed and installed to meet or exceed applicable standards or rules of the Minnesota Department of Health and Subd. 5B and Subd. 5H of this section. On-site sewage treatment systems must be located on the most suitable areas of the development, and sufficient lawn area free of limiting factors must be provided for a replacement soil treatment system for each sewage system;

b. dwelling units or sites must be clustered into one or more groups and located on suitable areas of the development. They must be designed and located to meet or exceed the following dimensional standards for the relevant shoreland classification; setback from the ordinary high water level, elevation above the surface water features, and maximum height. Setbacks from the ordinary high water level must be increased in accordance with Subd. 8E3 of this ordinance for developments with density increases;

c. shore recreation facilities, including but not limited to swimming areas, docks, and watercraft mooring areas and launching ramps, must be centralized and located in areas suitable for them. Evaluation of suitability must include consideration of land slope, water depth, vegetation, soils, depth to groundwater and bedrock, or other relevant factors. The number of spaces provided for continuous beaching, mooring or docking of watercraft must not exceed one for each allowable dwelling unit or site in the first tier (notwithstanding existing mooring sites in an existing commercially used harbor). Launching ramp facilities, including a small dock for loading and unloading equipment, may be provided for use by occupant of dwelling units or sites located in other tiers;

d. structures, parking areas, and other facilities must be treated to reduce visibility as viewed from public waters and adjacent shoreland by vegetation, topography, increased setbacks, color, or other means acceptable to the local unit of government, assuming summer, leaf-on conditions. Vegetative and topographic screening must be preserved, if existing, or may be required to be provided;

e. accessory structures and facilities, except water oriented accessory structures, must meet the required principal structure setback and must be centralized; and

f. water-oriented accessory structures and facilities may be allowed if they meet or exceed design standards

contained in Subd. 5B of this ordinance and are centralized.

G. **Conversions.** Local governments may allow existing resorts or other land uses and facilities to be converted to residential planned unit developments if all of the following standards are met:

1. Proposed conversions must be initially evaluated using the same procedures for residential planned unit developments involving all new construction. Inconsistencies between existing features of the development and these standards must be identified.

2. Deficiencies involving water supply and sewage treatment, structure color, impervious coverage, open space, and shore recreation facilities must be corrected as part of the conversion or as specified in the conditional use permit.

3. Shore and bluff impact zone deficiencies must be evaluated and reasonable improvements made as part of the conversion. These improvements must include, where applicable, the following:

a. removal of extraneous buildings, docks, or other facilities that no longer need to be located in shore or bluff impact zones;

b. remedial measures to correct erosion sites and improve vegetative cover and screening of buildings and other facilities as viewed from the water; and

c. if existing dwelling units are located in shore or bluff impact zones, conditions are attached to approvals of conversions that preclude exterior expansions in any dimension or substantial alterations. The conditions must also provide for future relocation of dwelling units, where feasible, to other locations, meeting all setback and elevation requirements when they are built or replaced.

4. Existing dwelling unit or dwelling site densities that exceed standards in Subd. 8E may be allowed to continue but must not be allowed to be increased, either at the time of conversion or in the future. Efforts must be made during the conversion to limit impacts of high densities by requiring seasonal use, improving vegetative screening, centralizing shore recreation facilities, installing new sewage treatment systems, or other means.