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CHAPTER 21.07: DEVELOPMENT AND DESIGN STANDARDS¹

2 21.07.010 GENERAL PROVISIONS Purpose² 3 Α. 4 The development and design standards set forth in this chapter shall apply to the 5 physical layout and design of development in Anchorage. These provisions address 6 the physical relationship between development and adjacent properties, public 7 streets, neighborhoods, and the natural environment, in order to implement the 8 comprehensive plan vision for a more attractive, efficient, and livable community. The 9 specific purposes of this chapter include: 10 1. To encourage the proper use of the land by promoting an appropriate balance 11 between the built environment and the preservation and protection of open 12 space and natural resources: 13 2. To protect public and private investment through preservation of open spaces, 14 protection of natural resources including existing trees, providing buffers 15 between incompatible uses and along roadways, and encouraging the 16 planting of new trees and vegetation as deemed appropriate; 17 3. To promote sound management of water quality and quantity through 18 preservation of natural areas and their functions and by encouraging soil 19 management and the use of native plant materials; 20 4. To provide appropriate standards to ensure a high quality appearance for 21 Anchorage and promote good design while also allowing flexibility, 22 individuality, creativity, and artistic expression; 23 5. To provide development and design standards that address and are tailored 24 to Anchorage's northern climate; 25 6. To strengthen and protect the image, identity, and unique character of 26 Anchorage and thereby to enhance its business economy; 27 7. To protect and enhance residential neighborhoods, commercial districts, and 28 other areas by encouraging physical development that is of high quality and is 29 compatible with the character, scale, and function of its surrounding area; 30 8. To encourage developments that relate to adjoining public streets, open spaces, and neighborhoods with building orientation and physical connections 31 32 that contribute to the surrounding network of streets and walkways; and 33 9. To provide road connectivity for the movement of people, goods, and 34 services. 35 Alternative Equivalent Compliance³ B. 36 1. **Purpose** 37 Alternative equivalent compliance is a procedure that allows development to 38 meet the intent of the design-related provisions of this chapter through an 39 alternative design. It is not a general waiver or weakening of regulations. 40 Rather, the procedure permits a site-specific plan that is equal to or better

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1 than the strict application of a design standard specified in this title. This 2 procedure is not intended as a substitute for a variance or administrative 3 modification or as a vehicle for relief from standards in this chapter. 4 2. **Applicability** 5 The alternative equivalent compliance procedure shall be available only for 6 the following sections of this chapter: 7 a. Section 21.07.060, Transportation and Connectivity; 8 Section 21.07.080. Landscaping. Screening and Fencing: b. 9 Section 21.07.090, Off-Street Parking and Loading: C. 10 d. Section 21.07.100, Residential Building Standards; 11 Section 21.07.110, Public/Institutional and Commercial Building e. 12 Standards: 13 f. Section 21.07.120, Large Commercial Establishments; and 14 Section 21.07.130, Exterior Lighting. g. 15 3. **Pre-Application Conference Required** 16 An applicant proposing to use alternative equivalent compliance under this 17 section shall request and attend a pre-application conference prior to 18 submitting the site plan for the development, to determine the preliminary 19 response from the Director. Based on that response, the site plan application 20 shall include sufficient explanation and justification, in both written and 21 graphic form, for the alternative compliance requested. 22 4. **Decision-Making Responsibility** 23 Final approval of alternative equivalent compliance under this section shall be 24 the responsibility of the decision-making body responsible for deciding upon 25 the application. For example, proposed alternative equivalent compliance on 26 a major site plan application shall be considered and decided upon by the 27 Urban Design Commission. By-right projects that would not ordinarily require 28 review under this title, yet which are proposing alternative equivalent 29 compliance, shall receive written approval of the alternative equivalent 30 compliance from the Director. All applications for alternative equivalent 31 compliance shall be processed and reviewed in a timely fashion. 32 5. Criteria 33 To grant a request for alternative equivalent compliance, the decision-making 34 body shall find that the following criteria are met: 35 The proposed alternative design achieves the intent of the subject a. 36 design standard to the same or better degree than the subject 37 standard. 38 b. The proposed alternative design achieves the goals and policies of 39 the Comprehensive Plan to the same or better degree than the 40 subject standard.

c. The proposed alternative design results in benefits to the community that are equivalent to or better than compliance with the subject design standard.

6. Effect of Approval

Alternative compliance shall apply only to the specific site for which it is requested and does not establish a precedent for assured approval of other requests.

21.07.020 NATURAL RESOURCE PROTECTION⁴

A. Purpose

The Municipality contains many natural amenities, including stream corridors, river corridors, natural drainages, wildlife habitat areas, water bodies, wetlands, significant viewsheds, and hillsides, as well as significant amounts of native forest, tree cover, and open space, all of which contribute to the Municipality's character, quality of life, and property values. The regulations of this section are intended to ensure that the natural character of the Municipality is reflected in patterns of development and redevelopment, and significant natural features are incorporated into open space areas.

B. Stream, Water Body, and Wetland Protection⁵

1. Purpose

The following requirements are intended to promote, preserve, and enhance the important hydrologic, biological, ecological, aesthetic, recreational, and educational functions provided by stream and river corridors, associated riparian areas, water bodies, and wetlands.

2. Applicability

This subsection 21.07.020.B. shall apply to all new development, except for the following development or activities:

- a. Development on lots of record that were approved for single-family residential use prior to the effective date of this title, which shall remain subject to applicable setback regulations in effect prior to adoption of this title;
- **b.** Maintenance and repair of existing public roads, utilities, and other public facilities within an existing right-of-way or easement;
- **c.** Flood prevention or rehabilitation work carried out by a government agency or approved by a government agency;
- **d.** Maintenance and repair of flood control structures and activities in response to a flood emergency; and
- **e.** Wetland and wildlife habitat restoration, construction, and/or enhancement that improves or restores the wetland or stream corridor functions, provided that the proposed activity is approved by the appropriate agency such as the U.S. Corps of Engineers or the Alaska Department of Fish and Game.

			Sec. 21.07.020 Natural Resource Protection
1	3.	Relationshi	p to Other Regulations
2 3 4 5 6		exis resti resti	subsection 21.07.020.B. does not repeal or supersede any ting federal, state, or local laws, easements, covenants, or deed rictions. When this subsection imposes a higher or more rictive standard than found in another applicable ordinance ute, or regulation, this subsection shall apply.
7 8 9 0 1		fill, with and	person shall engage in any activity that will disturb, remove, draindredge, clear, destroy, or alter any area, including vegetation in a wetland that falls in the jurisdiction of the federal government its agencies, except as may be expressly allowed under a permited by the appropriate federal agency.
2 3 4 5		to a that	decision-making body shall not grant preliminary or final approva ny development or activity, including subdivisions, in a wetland falls within the federal government's jurisdiction until al essary federal approvals and permits have been obtained.
16	4.	Buffer/Setb	ack Requirements
17 18 19 20 21 22 23 24			In the R-10 district, all buildings, accessory structures, and parking lots shall be set back at least 100 feet horizontally from the ordinary high-water mark of stream or river corridors or, if not readily discernible, from the defined bank of the stream or river. Except as provided in 6. below, no disturbance is permitted in the 100-foot setback area Development in the R-10 district also is subject to the district specific development standards in section 21.04.020.1.
26 27 28 29 30 31		ii.	In the R-5, R-6, R-7, R-9, I-1, and I-2 zoning districts, al buildings, accessory structures, and parking lots shall be set back at least 50 feet horizontally from the ordinary high-water mark of stream or river corridors or, if not readily discernible from the defined bank of the stream or river. Except as provided in 6. below, no disturbance is permitted in the 50-foot setback area.
33 34 35 36 37 38		iii.	For all zoning districts not listed in subsections i. and ii above, all buildings, accessory structures, and parking lots shall be set back at least 25 feet horizontally from the highwater mark of stream or river corridors or, if not readily discernible, from the defined bank of the stream or river Except as provided in 6. below, no disturbance is permitted in the 25-foot setback area.
10 11 12		iv.	Segments of streams or tributaries that are contained in culverts for a contiguous length of 100 feet or more are not regulated by this subsection.
13 14		v.	Setbacks required in this subsection shall extend the specified distance from both sides of the stream or river.

1 2 3		vi. For parcels where there are wetlands contiguous with a stream, setback requirements are listed in Table 2 of the Anchorage Wetlands Management Plan.
4 5 6 7 8 9	b.	 Wetlands To the maximum extent feasible, class A and those class B wetlands which, as a result of U.S. Corps of Engineers permitting, are not authorized for development, shall be tracted out and thus not included as part of a platted development lot. Wetland classes are defined and delineated in the Anchorage Wetlands Management Plan.
11 12 13 14 15		ii. Except as provided in 6. below, all buildings, accessory structures, fills and other storage of materials, and parking lots shall be set back at least 15 feet horizontally from the delineated edge of all Class A wetlands, and all portions of Class B and C wetlands not authorized for development; no disturbance is permitted in the 15-foot setback area.
17 18 19 20 21 22 23	c.	Water Bodies In all districts, all buildings, accessory structures, and parking lots shall be set back at least 15 feet horizontally from the edge of water bodies. Except as allowed in 6. below, no disturbance is permitted in the 15-foot setback area. Uses such as docks, boathouses, and floatplane storage sheds that require direct access to a water body by their very nature or function shall be exempted from this setback requirement.
25 26 27 28 29	d.	Credit for Other Requirements of this Title Stream corridor, water body, and wetland setback areas shall be credited toward any applicable private open space requirements or landscaping requirements only if such setback areas serve the purposes of those requirements as set forth in this title.
5. 31 32 33 34 35	Bound a.	 ary Delineation Official Definitions and Standards⁷ i. In cases where stream channels or water bodies are not mapped and recorded in official plans or other documents, delineation of such features shall be made according to the municipal Watershed Management Division's definitions and standards, and may be subject to formal verification by the
37 38 39 40 41 42 43		ii. In cases where wetlands are not mapped and recorded in official plans or other documents, including the Anchorage Wetlands Management Plan, delineation of such features shall be performed using procedures as described in the U.S. Corps of Engineers 1987 Wetlands Manual. Delineations shall be subject to formal verification by the Department and/or the U.S. Corps of Engineers.

1 2 3 4 5 6
7 8 9 10 11 12 13 14 15
16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31
32 33 34 35 36 37
38 39 40
41 42 43 44 45 46 47

b. Stream and River Corridor Boundaries

Stream and river corridors shall be delineated at the ordinary highwater mark or, if not readily discernible, the defined bank of the stream or river, as those terms are defined in chapter 21.13. The municipal Watershed Management Division shall maintain the official record of all stream and river corridor boundaries.

c. Wetland Boundaries

i. Mapped Wetlands

Boundary delineation of wetlands shall be established by reference to the Anchorage Wetlands Management Plan, which is available for reference in the Department and which is hereby adopted and incorporated into this title by reference. Plats shall depict class A and B wetland boundaries, and boundaries of class C wetlands that are not authorized for development.

ii. Unmapped Wetlands

The review of a development proposal may discover a potential wetland that has not been mapped or for which the boundaries have not been clearly established. In such instances, the boundaries of the wetland shall be delineated according to subsection 5.a.ii. above. Any new wetland boundaries delineated herein shall be submitted to the U.S. Corps of Engineers for approval.

6. Development Standards⁸

a. Prohibited Activities

- i. No person shall engage in any activity that will disturb, remove, fill, drain, dredge, clear, destroy, or alter an area, including vegetation, within stream or river corridors, pond or lake edges, wetlands, or their associated buffer/setback areas, except as may be expressly allowed in this section or title.
- ii. Channel alteration, including culvertization other than for roadway and driveway crossings, is prohibited unless a variance is obtained under the provisions of section 21.03.190, a flood hazard permit is obtained as per section 21.03.100, and relevant state and federal permits are obtained.
- iii. No storage or processing of hazardous materials or other substances that would constitute a violation of AMC chapter 15.40 is permitted.

b. Utilities

Utilities, including potable water wells, may be allowed in a buffer/setback area only if the decision-making body determines that there is no practical alternative. Any disturbance of the buffer area shall be reclaimed by regrading to original contours and revegetation with native species. Provisions for reclamation of the disturbed area shall be included in any development or improvements agreement for

the project, with adequate collateral to guarantee the reclamation will be completed. Utility corridors in buffer/setback areas shall be located at the outside edge of the area or if crossing the setback laterally shall disturb only the minimum area necessary to install the utility. Access roads for maintenance of utilities shall be located outside the buffer/setback area to the maximum extent feasible. Access for maintenance of utilities in buffer/setback areas should be at specific points rather than parallel to the utility corridor whenever possible.

c. Recreation, Education, or Scientific Activities

Structures and improvements for recreational, educational, or scientific activities such as trails, docks, fishing access, and wildlife management and viewing may be permitted in a buffer/setback area by the appropriate government agency.

7. Preservation and Restoration of Vegetation

All existing vegetation within the stream/river corridor, lake or pond edge, or wetland buffer/setback area shall be preserved and, where necessary to provide adequate screening or to repair damaged riparian areas, supplemented with additional native planting and landscaping. The removal of dead or naturally fallen trees or vegetation, or trees or vegetation that the Municipality finds to be a threat to the public health, safety, or welfare, shall be exempt from this requirement.

8. Wetland Mitigation Requirements

When a wetland or its buffer is altered in violation of law or without specific permission or approval by the decision-making body, the Director shall require restoration to the previous condition, to the maximum extent feasible, according to an approved wetland mitigation plan.

9. Structures and Uses Otherwise Prohibited

This section does not permit any structure, or any use of land or a structure, otherwise prohibited by this title.

10. Implementation of Anchorage Wetlands Management Plan⁹

a. Municipal Zoning and Platting Actions

Municipal zoning and platting actions taken under this title shall be consistent with the Anchorage Wetlands Management Plan.

i. "A" Wetlands

Wetlands designated "A" in the Anchorage Wetlands Management Plan and in Table 2 of that Plan shall be protected as indicated in that table and in chapter 4 of the Anchorage Wetlands Management Plan.

ii. "B" Wetlands

New development plans in "B" wetlands shall obtain a U.S. Corps of Engineers permit, concurrent with or prior to necessary approval by the Platting Board and/or the Planning and Zoning Commission. In order to maximize protection of wetlands designated "B," in addition to the criteria normally considered in subdivision, site plan, and conditional use

_			Sec. 21.07.020 Natural Resource Protection
1 2 3 4		Con that	lications, the Platting Authority or the Planning and Zoning nmission shall, prior to approval, make explicit findings, or the applicant shall certify with their U.S. Corps of ineers permit that:
5 6 7 8 9		(A)	The proposed design and placement of roadways, utility lines, and structures will not interfere with the natural drainage function indicated in the required hydrologic studies or that such interference can be adequately mitigated to maintain the natural drainage function;
10 11 12 13		(B)	The soils in the area proposed for development shall adequately support roadways and structures, or that properly designed roads and foundations will be provided; and
14 15		(C)	Habitat areas identified in federal, state, or municipal documents shall be adequately protected.
16 17 18 19 20 21 22 23 24 25 26		requ Zon nec wetl prop natu plar Con and out	Intenance of open space in its natural state shall be used where the Platting Authority or the Planning and ing Commission determines that such maintenance is essary to protect the hydrologic and habitat values of ands on the property being developed or on adjacent perty. Areas where open space is to be preserved in its ural state shall be indicated on the plat or approved site in. The Platting Authority and Planning and Zoning mission may require such land development techniques such additional conditions as may be appropriate to carry the intent of the wetlands plan and such other wetlands lies as may be relevant.
28 29 30 31 32 33		Whe des Plar prac tech	Wetlands en approving plats or conditional use permits in wetlands ignated "C" under the plan, the Platting Authority or the nning and Zoning Commission shall, whenever cticable, include the recommended construction mitigation iniques and conditions and enforceable policies in Table 2 ine Anchorage Wetlands Management Plan.
35 36 37 38 39		Conditional 1996, the Managemer	of Plan to Approved Projects uses and preliminary plats approved prior to March 12, date of adoption of the revised Anchorage Wetlands at Plan, shall not have additional conditions imposed upon esult of requirements of the plan except as follows:
40	i	i. The	"A" designation shall apply regardless of prior approvals.
11 12 13 14 15	j	retu Con con	roved plats or conditional uses in wetlands that are rned to the Platting Authority or Planning and Zoning mission for major amendment may be examined for formity with plan goals and enforceable policies of the horage Wetlands Management Plan.

1				iii. A new U.S. Corps of Engineers permit is required.
2	C.	Steep	Slope D	Development ¹⁰
3 4		1.	Purpo The pu	se urpose of this subsection 21.07.020.C. is to:
5			a.	Prevent soil erosion and landslides;
6 7 8			b.	Provide safe circulation of vehicular and pedestrian traffic to and within hillside areas and to provide access for emergency vehicles necessary to serve the hillside areas;
9 10			C.	Encourage only minimal grading that relates to the natural contour of the land;
11 12			d.	Preserve the most visually significant slope banks and ridge lines in their natural state;
13 14			e.	Preserve visually significant rock outcroppings, native plant materials, natural hydrology, and other areas of visual significance;
15 16 17			f.	Encourage variety in building types, grading techniques, lot sizes, site design, density, arrangement, and spacing of buildings in developments;
18 19			g.	Encourage innovative architectural, landscaping, circulation, and site design; and
20			h.	Discourage mass grading of large pads and excessive terracing.
21 22 23 24 25 26		2.	This some propose Municity where	cability ¹¹ ubsection 21.07.020.C. shall apply to any development or subdivision cal or lot created after the effective date of this title within the pality for properties with an average slope of 20 percent or greater, or adverse conditions associated with slope stability, erosion, or entation are present as determined by the Municipal Engineer.
27 28 29		3.		ards ¹² poposed development subject to this section shall comply with the ng standards.
30 31 32 33 34			a.	Slopes Greater than 30 Percent One hundred percent of areas with slopes greater than 30 percent shall remain undisturbed, except as expressly allowed by section 21.04.020J. This requirement shall not apply to small, isolated steep slope areas within a site that do not exceed 5,000 square feet.
35 36 37 38			b.	 Cutting, Grading, and Filling i. Cutting and grading to create benches or pads for buildings or structures shall be avoided to the maximum extent feasible.

1 2 3		ii.	Except for driveways, cut and fill slopes shall be entirely contained within a lot (i.e., natural grade at the lot lines shall be maintained).
4 5 6 7 8 9		iii.	Sharp angles shall be rounded off, in a natural manner, at the top and ends of cut and fill slopes (within approximately five feet of the sharp angle) unless steep angles are a natural character of the site. Where this would damage tree root systems, the amount of rounding off may be reduced and shrubs used instead to hide the transition.
10 11 12 13	C.	The ori	g or Lowering of Natural Grade ginal, natural grade of a lot shall not be raised or lowered more our feet at any point for construction of any structure or ement, except:
14 15 16 17 18		i.	The site's original grade may be raised or lowered a maximum of six feet if retaining walls are used to reduce the steepness of man-made slopes, provided that the retaining walls comply with the requirements set forth in this subsection.
19 20 21		ii.	As necessary to construct a driveway from the street to a garage or parking area, grade changes or retaining walls up to six feet may be allowed.
22 23 24		iii.	For the purposes of this subsection 21.07.020.C.3.c., basements and buildings set into a slope are not considered to lower the natural grade within their footprint.
25 26 27 28 29 30 31	d.	Retainir retainir varied averag	ing Walls ng walls may be used to minimize cut and fill. Generally, a ng wall shall be no higher than four feet, except that a wall in height to accommodate a variable slope shall have an e height no greater than four feet and a maximum height no than eight feet in any 100-foot length. A higher wall is ed:
32 33		i.	Where used internally at the split between one- and two-story portions of a building; and
34 35 36		ii.	Where substantially hidden from public view at the rear of a building, where it may not exceed the eave height of the building.
37 38 39 40 41 42 43	e.	Vehicu i.	Streets, roads, private access roads, driveways, and other vehicular routes shall not be allowed to cross slopes between 30 and 50 percent, except that a short run of no more than 100 feet or 10 percent of the road/street's entire length, whichever is less, may be allowed by the decision-maker upon finding that:

1 2 3 4 5			(A) Such street or road will not have significant adverse safety or environmental impacts, or appropriate engineering or other measures will be taken by the developer to substantially mitigate any such adverse impact; and
6			(B) No alternate location for access is feasible or available.
7 8		ii.	No street, road, private access road, driveway, or other vehicular route shall cross slopes greater than 50 percent.
9 10 11		iii.	Streets, roads, private access roads, and other vehicular routes shall follow natural contour lines to the maximum extent feasible.
12 13 14 15 16 17 18 19 20		iv.	Grading for streets, roads, private access roads, and other vehicular routes shall be limited to the cartway portion of the right-of-way, plus up to an additional ten feet on either side of the cartway as needed, except that when developing access on slopes in excess of 25 percent, only the cartway right-of-way shall be graded plus the minimum area required for any necessary curb, gutter, or sidewalk improvements. The remainder of the access right-of-way shall be left undisturbed to the maximum extent feasible.
21 22 23	f.	Site de	I Drainage Patterns esign shall not change natural drainage patterns, except as d below.
24 25		i.	All final grading and drainage shall comply with title 23 and the Municipality's Erosion-Sediment Control Handbook.
26 27 28 29 30 31 32 33 34 35		ii.	To the maximum extent feasible, development shall preserve the natural surface drainage pattern unique to each site as a result of topography and vegetation. Grading shall ensure that drainage flows away from all structures, especially structures that are cut into hillsides. Natural drainage patterns may be modified on site only if the applicant shows that there will be no significant adverse environmental impacts on site or on adjacent properties. If natural drainage patterns are modified, appropriate stabilization techniques shall be employed.
36 37		III.	Development shall mitigate all negative or adverse drainage impacts on adjacent and surrounding sites.
38 39 40 41 42 43		iv.	Standard erosion control methods shall be used during construction to protect water quality, control drainage, and reduce soil erosion. Sediment traps, small dams, barriers of straw bales, or other methods acceptable to the Municipality shall be located wherever there are grade changes, to slow the velocity of runoff.

1 2 3 4 5			g.	Winter Erosion Blanket ¹³ If a disturbed slope is not stabilized by October 15, then the developer/builder shall install an erosion blanket (or some equivalent) when finished working, but no later than October 15, to protect the site during the winter season.
6 7 8 9 10			h.	Utilities on Slopes Where the landowner requires buried utilities to be place on side slopes and where the utility corridor runs transverse to the side slope, the side slope portion of the corridor shall be no more than 10 percent.
11	D.	Wildlif	e Confli	ct Prevention Areas ¹⁴
12 13 14 15 16 17 18		1.	water of Glenn Creek of Eagle Campb	ability absection shall apply within 200 feet on either side of the ordinary high of the following streams: Eklutna River (downstream from the Old Highway), Thunderbird Creek, Peters Creek and its tributaries; Fire (downstream from the Old Glenn Highway), Eagle River, South Fork of River (below the falls), Ship Creek (upstream from Reeve Blvd.), sell Creek (upstream from Lake Otis Parkway); Rabbit Creek, Little Creek, Indian Creek, Bird Creek, and Portage Creek.
20 21 22		2.		ards the area identified in subsection 1. above, the following mandatory rds shall apply:
23			a.	No landfills, transfer stations, schools, or campgrounds are allowed.
24 25 26			b.	Any commercial, institutional, or industrial development shall store edible garbage in bear-proof containers, and shall not store food outside.
27 28			c.	Roads and driveways are allowed only if there is no feasible and prudent alternative.
29 30 31			d.	Stream crossings, either by roads, driveways, or trails, shall be designed to facilitate wildlife passage along the stream, and minimize wildlife-human conflicts.
32 33 34		3.		ines the area identified in subsection 1. above, the following voluntary nes shall apply:
35			a.	Fences are discouraged.
36			b.	New buildings are encouraged to be sited outside these areas.
37 38			c.	Trails should be sited outside these areas, and/or with direct consultation with the state Department of Fish and Game.
39			d.	All outdoor trash receptacles should be bear-proof.

1			e.	Bird feeders should be empty between April 15 and October 15.
2			f.	Food, including pet food and bird seed, should be stored indoors and/or in bear-proof containers.
4 5			g.	Bee hives, vegetable gardens, fruit trees and berry bushes, and composting is discouraged in this area.
6 7			h.	Pet runs and livestock should not be kept in this area, or should be penned with an electric fence.
8	21.07.030 OPEN	SPACE		
9	A.	Purpos	se	
10 11 12 13 14 15		through review areas a access	nout the process and resc	1.07.030 is intended to ensure that open space and natural areas Municipality are considered and protected during the development. Open space serves numerous purposes, including preserving natural purces and scenic views; providing health benefits and greater resident areas and recreation; and enhancing the quality of new development lity.
16	В.	Private	e Comm	on Open Space ¹⁵
17 18 19 20 21 22		1.	exclusi users.	e common open space is private open land area set aside for the ve use and enjoyment of a development's residents, employees, or Goals and requirements for common open space complement this requirements for dedicated open space and parks, and serve similar
23 24 25 26		2.	Develo	ability ¹⁶ spendent in the Municipality shall be required to set aside a portion of sprivate common open space according to the following minimum ements, except as provided in subsection 3. below:
27 28			a.	Multi-family residential development containing six or more units: 800 square fee per dwelling unit.
29			b.	Commercial/Mixed-Use development: 15 percent of total land area.
30 31 32 33 34 35 36 37		3.	In lieu develo and de Directo those I this su	of a percent open space set aside, all commercial and residential pment in the central business districts, the Midtown Mixed-Use District, esignated infill and redevelopment areas may, with the approval of the or, provide alternative open space and environmental amenities such as isted below. The economic value of the amenities provided pursuant to bsection shall be comparable to the economic value of the space that ave been required under subsection 2. above.
38			a.	Plazas;
39			b.	Fountains;

1	c.	Roof gardens;
2	d.	Playgrounds;
3 4	e.	Street trees and landscaping not already required by this title or other Municipal ordinances or policies; or
5	f.	Community meeting space open to the public.
6 7 8 9 10 11 12 13 14 15	4. Standa a.	Locational Criteria To the maximum extent feasible, where significant natural and scenic resource assets exist on a property, the subdivider, developer, or owner shall give priority to their preservation as private common open space. In reviewing the proposed location of private common open space areas, the Director shall use all applicable plans, maps, and reports to determine whether significant resources exist on a proposed site that should be protected, with priority being given to the following areas (which are not listed in a particular order):
16		i. Wetlands;
17		ii. Flood Hazard Overlay District;
18		iii. Lakes, rivers, and stream/riparian corridors;
19		iv. Wildlife migration corridors;
20		v. Areas with average slopes over 20 percent; and
21		vi. Tree retention areas.
22 23 24	b.	Areas Not Credited Lands within the following areas shall not be counted towards required private common open space set-aside areas:
25 26 27		i. Private yards, except that 50% of a private yard may count towards required private common open space as long as no dimension is less than fifteen feet;
28		ii. Public or private streets or rights of way;
29		iii. Open parking areas and driveways for dwellings; and
30 31		iv. Land covered by structures not intended solely for recreational uses.
32 33 34 35	c.	Use of Common Open Space Areas Common open space areas shall not be disturbed, developed, or improved with any structures or buildings, except for the limited purposes allowed below:

1 2 3		i.	Facilities for active recreation (equipment for such uses shall be indicated on the site and/or subdivision plan provided by the developer).
4 5 6 7 8		ii.	Common open space areas may include passive recreational and educational purposes approved by the Director, including but not limited to walking, biking, picnicking, fishing, preservation of natural areas and scenic resources, parks, environmental education, and wildlife habitat protection.
9 10		iii.	Clearing of underbrush and debris and the provision of walks, fountains, fences, and other similar features are allowed.
11 12 13	d.	Land	n Criteria set aside for private common open space shall meet the ng design criteria, as relevant:
14 15 16 17 18 19 20		i.	Common open space areas shall be distributed throughout the development and located so as to be readily accessible and useable by residents, unless the lands are sensitive natural resources and access should be restricted. At least one-half of such open space shall be contiguous, and no portion of the required open space may be less than 2,000 square feet or less than 30 feet in its smallest dimension.
21 22 23 24 25 26 27		ii.	The lands shall be compact and contiguous unless the land shall be used as a continuation of an existing trail, or specific topographic features require a different configuration. An example of such topographic features would be the provision of a trail or private open area along a riparian corridor. A portion of the open space should provide focal points for the development.
28 29 30 31 32 33		iii.	Where private common open space areas, trails, parks, or other public spaces exist adjacent to the tract to be subdivided or developed, the private common open space shall, to the maximum extent feasible, be located to adjoin, extend, and enlarge the presently existing trail, park, or other open area land.
34 35 36 37	e.	commo	vate common open space areas shall be owned jointly or in on by the owners of the development or permanently preserved h some other mechanism satisfactory to the Director.
38 39 40	f.	The p	Lieu Prohibited ayment of fees in lieu of the set-aside of land for private on open space is prohibited.
41	21.07.040 DRAINAGE, STORMV	VATER	RUNOFF, EROSION CONTROL
42	[RESERVED] ¹⁸		

1 21.07.050 UTILITY DISTRIBUTION FACILITIES¹⁹ 2 Α. **Underground Placement Required for New or Relocated Lines** 3 Except as provided in subsection B. below, all newly installed or relocated 4 utility distribution lines shall be placed underground. 5 2. Utility distribution lines owned or operated by utilities that are parties to a joint 6 trench agreement shall be placed underground in a joint trench. 7 3. Nothing in this section restricts the maintenance, repair, or reinforcement of 8 existing overhead utility distribution lines. 9 В. **Exceptions** 10 Except where an assessment district has been formed to convert overhead utility distribution lines as provided in title 19.60, utility distribution lines need 11 12 not be placed underground in the Class B improvement area defined in 13 subsection 21.08.050.B., or in the I-2 zoning district. However, in the 14 following areas newly installed or relocated utility distribution lines shall be 15 placed underground: Lower Hillside, between and including Abbott Road, 16 Rabbit Creek Road, Hillside Drive and the New Seward Highway. 17 2. Except where an assessment district has been formed to convert overhead 18 utility distribution lines as provided in title 19.60, CATV utility distribution lines 19 need not be placed underground where there are other overhead utility 20 distribution lines; provided that, when all of the other overhead distribution 21 lines are placed underground, the CATV utility distribution line shall be placed 22 underground in a joint trench with the other utility distribution lines. 23 3. A new utility distribution line may be placed overhead when necessary 24 immediately to restore service interrupted by accident or damage by flood. 25 fire, earthquake or weather; provided that the utility distribution line shall be 26 replaced by a utility distribution line conforming to this chapter within 12 27 months of its placement. 28 4. A utility distribution line or service connection may be placed on the surface of 29 frozen ground, provided that it is placed underground within 12 months 30 thereafter. 31 5. New facilities may be added to existing overhead utility distribution facilities 32 located outside target areas. 33 6. A temporary utility distribution line may be placed overhead in connection with 34 new construction if the utility's tariff approved by the state public utilities 35 commission expressly provides for removal of that line by a date certain, not 36 to exceed 12 months thereafter. **Variances** 37 C. 38 1. The Director may grant a variance from subsection A. above when any of the 39 following is found:

1 2			a.	Placing a utility distribution line underground would cause an excessive adverse environmental impact;
3 4 5			b.	Placing a utility distribution line underground would threaten public health and safety, because the placement cannot be shown to meet acceptable technical standards for safety; or
6 7 8 9			C.	Placing a utility distribution line underground in an environmentally sound and safe manner would cost more than three times the cost of placing the line overhead, where the applicant demonstrates the relative cost to the satisfaction of the Director.
10 11 12		2.	finds th	rector may grant a variance from subsection A. above when he or she nat the utility distribution line is being placed overhead temporarily for the reasons listed in this subsection:
13 14			a.	The line is being placed to provide service when weather conditions do not allow excavation for underground placement;
15 16			b.	A permanent location for underground placement is not available because of construction in progress; or
17 18			c.	The line is being placed to provide service to a temporary use or structure.
19 20 21		3.	with A	anning and Zoning Commission may adopt regulations in accordance MC chapter 3.40, delegating authority to grant variances under tion 1. and 2. above to the Director.
22 23		4.	A varia	ance issued under this subsection shall expire within two years of its ce.
24	D.	Nonco	nformin	g Overhead Lines ²⁰
25 26 27 28 29 30		relocate distribu distribu	ed utility ition line ition line informitie	ead utility distribution lines located where this title requires new or distribution lines to be placed underground are nonconforming utility as and are subject to the provisions of this subsection. A utility a is not a nonconforming structure or use under chapter 21.11, s, solely because it is a nonconforming overhead line under this
31	E.	Design	nation o	f Target Areas ²¹
32 33 34 35 36 37 38 39 40 41		1.	distribut capital subsect basis. electric forth be provide program	ectric utility that owns poles that support nonconforming utility ition lines shall prepare or otherwise include as part of its annual improvement plan, a five-year undergrounding program consistent with ition F. below. This five-year program shall be updated on an annual Priorities shall be based on undergrounding in conjunction with the utility's essential system improvements and then by target area as set elow in no particular order of priority. The Director shall review and a comment for consideration by the electric utilities on these five-year ms. When reviewing and commenting on these programs, the Director onsider the following factors in no particular order of priority:

1 2		a.	Whether undergrounding will avoid or eliminate an unusually heavy concentration of overhead distribution facilities.
3 4		b.	Whether the street or general area is extensively used by the general public and carries a heavy volume of pedestrian or vehicular traffic.
5 6 7		C.	Whether the appearance of grounds and structures adjacent to the roadway is such that the removal of the overhead facilities will substantially improve the general appearance of the area.
8 9		d.	Whether the street or area affects a public recreation area or an area of scenic interest.
10 11 12		e.	Whether there is a significant opportunity to achieve economies due to the anticipated relocation or replacement of overhead lines or the widening or realignment of streets within a given area.
13 14		f.	Whether the five-year program sufficiently addresses the objectives of subsection F. below.
15 16 17		g.	Whether the area under consideration is within a zone where new and relocated distribution lines are required to be placed underground.
18 19 20		h.	Whether the installation of underground distribution lines is economically, technically and environmentally feasible, including the effect on the attached utility.
21 22 23 24 25	2.	project the util reviewi	irector shall confirm annually that the electric utilities have developed undergrounding implementation plans. The Director shall consult with lities and public agencies affected by any implementation plan. In ing implementation plans, the Director shall consider the factors stated section 1. above.
26	3.	The foll	llowing shall be target areas:
27 28		a.	Central Business District: between and including Third Avenue and Tenth Avenue and L Street and Ingra Street.
29 30		b.	Mid-town area: between and including New Seward Highway and Minnesota Drive and International Airport Road and Fireweed Lane.
31 32		c.	All municipal and state street improvement projects except for those which do not require relocation of utility distribution facilities.
33		d.	The following major traffic corridors:
34			i. Old Seward Highway.
35 36			ii. Ingra and Gambell Streets between and including Ninth Avenue and Fireweed Lane.

1 2				iii.	Northern Lights Boulevard and Benson Boulevard between and including Glenwood Street and Arlington Drive.
3 4				iv.	Muldoon Road between and including New Glenn Highway and Patterson Street.
5 6				v.	Tudor Road between and including Patterson Street and Arctic Boulevard.
7 8				vi.	Boniface Parkway between and including 30th Avenue and New Glenn Highway.
9 10				vii.	Spenard Road between and including Hillcrest Drive and International Airport Road.
11				viii.	Arctic Boulevard between 17 th Avenue and Tudor Road.
12				ix.	Lake Otis Parkway between Tudor Road and Abbott Loop
13			e.	All parl	k, recreational use and scenic interest areas.
14 15 16			f.	Glenn	River Central Business District between and including the New Highway, North Eagle River Access Road, Aurora street as ed to the Old Glenn Highway and the Old Glenn Highway.
17 18 19			g.	one uti	ea where utility distribution facilities are provided by more than lity as a result of mergers and boundary changes approved by te public utilities commission.
20			h.	School	and university areas.
21	F.	Nonco	nformir	ng Over	head Lines
22 23 24 25		1.	distribu Any ot	ıtion line her utilit	tility that owns poles that support nonconforming utility es shall remove the poles and place those lines underground. It is that attaches to such poles shall place its lines underground ne that the pole owner places lines underground.
26 27 28 29 30 31 32 33 34			a.	least to revenue munici gas to resale electric Munici	ectric utility that owns poles shall, in each fiscal year, expend at wo percent of a three-year average of its annual gross retail les derived from utility service connections within the pality, excluding toll revenues, revenues from sales of natural third parties, and revenues from sales of electric power for for purposes of undergrounding nonconforming lines. An cutility's expenditures, pursuant to AS 42.05.381(h), within the pality of Anchorage, shall be counted toward satisfaction of the recent expenditure required by this subsection.
35 36 37 38 39			b.	subsection pole of noncor	y with lines attached to a pole that is to be removed under this ction shall place its lines underground at the same time that the owner places its lines underground. To underground informing utility lines, an attached utility shall not be required to did more than two percent of its annual gross retail revenues

			derived from utility service connections within the Municipality, excluding toll revenues. For the purpose of satisfying 21.90.070, the utility's expenditures pursuant to AS 42.05.381(h) within the Municipality of Anchorage are counted toward this two percent expenditure limit.
		C.	The electric utility that owns poles may choose which existing lines to underground in order to fulfill the two percent expenditure requirement, in consultation with appropriate public agencies and any other utilities.
		d.	An electric utility that owns poles that does not expend the amount required in subsection A. of this section, or that expends more than that amount, may carry over the under expenditure or over expenditure as an adjustment to the following year's obligation.
	2.	entities owner at leas emerge	ectric utility that owns poles shall notify the Director, and utilities or with lines attached to such poles, of the approximate date that the plans to remove the poles. Such notice, where possible, shall be given st four months in advance of the undergrounding except where an ency or other unforeseen circumstances preclude such notice, in which uch advance notice as is reasonable under the circumstances shall be ed.
	3.	expend	y shall annually submit a report of its undergrounding projects and ditures for non-conforming lines to the Director within 120 days of the the preceding calendar year.
	4.	as req	v service connections shall be placed underground in the same manner uired for utility distribution lines under subsection A. above. New lines may be temporarily installed above ground from October through placed underground within one year of installation.
G.	Lines	in Munic	cipal Right-of-Way
	1.	utility o	epartment of Project Management and Engineering shall furnish to a pwning or operating utility distribution lines all planning documents for pal road construction that will require the relocation of those utility ution lines.
	2.	complia Manag Munici	a utility installing a utility distribution line underground in material ance with a right-of-way permit issued by the Department of Project ement and Engineering and in accordance with this chapter, the pality shall reimburse the cost of any subsequent relocation of the utility ution line required by municipal road construction.
	3.	utility of cost, s this su genera	icipal road construction requires the relocation of a nonconforming listribution line, the Municipality, as part of the road construction project hall reimburse the cost of the relocation. Reimbursable costs under bsection include engineering and design, inspection, construction and I overhead costs, but exclude utility plant betterment costs. Plant nent costs are the costs of providing utility distribution line capacity or
	G.	3. 4. G. Lines 1.	d. 2. The elentities owner at leas emerge case s provide 3. A utility expendent of the content

quality beyond what current industry standards require for the capacity or level of service existing before the relocation.

H. Conversion of Service Connections

A utility that places a nonconforming utility distribution line underground as required by subsection c. above shall bear the cost of placing underground any related service connections or other utility facilities on a customer's premises, in accordance with the utility's applicable tariff or rules or regulations of operation.

21.07.060 TRANSPORTATION AND CONNECTIVITY

A. Purpose

The purpose of this section 21.07.060 is to support the creation of a highly connected transportation system within the Municipality in order to provide choices for drivers, bicyclists, and pedestrians; increase effectiveness of municipal service delivery; promote walking and bicycling; connect neighborhoods to each other and to local destinations such as employment, schools, parks, and shopping centers; reduce vehicle miles of travel and travel times; improve air quality; reduce emergency response times; mitigate the traffic impacts of new development, and free up arterial capacity to better serve regional long-distance travel needs.

B. Applicability

The standards of this section 21.07.060 shall apply to all development in the Municipality.

C. Traffic Impact Mitigation

1. Traffic Impact Analysis Required

The transportation system for new development shall be capable of supporting the proposed development in addition to the existing uses in the area. Evaluation of system capacity shall be undertaken through a Traffic Impact Analysis (TIA), which should consider the following factors without limitation: street capacity and level of service; vehicle access and loading; onstreet parking impacts; the availability of transit service and connections to transit; impacts on adjacent neighborhoods; and traffic safety including pedestrian safety. At a minimum, a Traffic Impact Analysis (TIA) shall be required with applications for development review and approval when:

- a. Trip generation during any peak hour is expected to exceed 500 trips per day or more than 100 trips during any one-hour peak period, based on traffic generation estimates of the Institute of Transportation Engineers' Trip Generation Manual (or any successor publication);
- **b.** A TIA is required by the Planning and Zoning Commission or Assembly as a condition of any land use application approved pursuant to the requirements of this title; or
- **c.** The Director shall, unless the Traffic Engineer deems it unnecessary through a waiver, also require a TIA for:

1 2				i.	Any project that proposes access to a street with Level of Service "D" or below;
3 4				ii.	Any application for a rezoning, conditional use, or major site plan review;
5 6				iii.	Any case where the previous TIA for the property is more than two years old;
7 8 9 10				iv.	Any case where increased land use intensity will result in substantially increased traffic generation and reduction of the existing level of service on affected streets by at least one service level; or
11 12 13				v.	Any case in which the Traffic Engineer determines that a TIA should be required because of other traffic concerns than may be affected by the proposed development.
14 15 16 17		2.	TIA an	A scop	opment Review Process bing meeting between the developer and the Traffic Engineer e required prior to the start of the TIA in order to determine its eters.
18 19 20			b.	the tim	access points are not defined or a site plan is not available at e the TIA is prepared, additional studies may be required when plan becomes available or the access points are defined.
21 22 23 24 25 26 27 28 29 30		3.	The apmeasure the admeasure without manage pedestri improves	oplicant res to m lequacy res sha limitati ement n rian, bio	shall, as part of the Traffic Impact Analysis, recommend inimize and/or mitigate the anticipated impacts and determine of the development's planned access points. Mitigation II be acceptable to the Traffic Engineer and may include, ion: an access management plan; transportation demand neasures; street improvements on or off the site; placement of cycle or transit facilities on or off the site; or other capital projects such as traffic calming infrastructure or capacity
31	D.	Streets	and O	n-Site V	ehicular Circulation
32 33 34 35		1.	All stre 21.08.0)30.F.2.,	rds I meet the standards and requirements set forth in subsections Street Grades, 21.08.030.F.3., Street Alignment, and Street Intersections.
36 37 38 39		2.	parking	tion to o	complying with the standards in this subsection 21.07.060.D., shall comply with the standards set forth in section 21.07.090, ing and Loading.
40 41		3.	Street a.	Connect Purpos	

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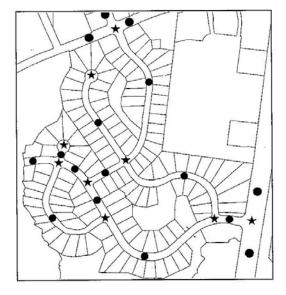
28

Street and block patterns should include a clear hierarchy of well-connected streets that distribute traffic over multiple streets and avoid traffic congestion on principal routes. Within each residential development, the access and circulation system and a grid of street blocks should accommodate the safe, efficient, and convenient movement of vehicles, bicycles, and pedestrians through the development, and provide ample opportunities for linking adjacent neighborhoods, properties, and land uses. Local neighborhood street systems are intended to provide multiple direct connections to and between local destinations such as parks, schools, and shopping. These connections should knit separate developments together, rather than forming barriers between them.

b. Internal Street Connectivity (Connectivity Index)²²

- All development shall achieve a connectivity index of 1.65 or greater.
- ii. The connectivity index for a development is calculated by dividing its links by its nodes. Figure 21.07-1, Calculation of Connectivity, provides an example of how to calculate the connectivity index. Nodes (stars) exist at street intersections and cul-de-sac heads within the development. Links (circles) are stretches of road that connect nodes. Street stub-outs are considered as links. One link beyond every node that exists in the development and provides access to the greater municipal street system shall be included in the index calculation. In the diagram, there are 16 links (circles) and nine nodes (stars); therefore the connectivity index is 1.78 (16/9 = 1.78).

FIGURE 21.07-1: CALCULATION OF CONNECTIVITY



iii. The Connectivity Index standard of 1.65 or greater may be reduced if the owner/developer demonstrates it is impossible

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Sec. 21.07.060 Transportation and Connectivity 1 or impracticable to achieve due to topographic conditions, 2 natural features, or adjacent existing development patterns. 3 iv. Whenever cul-de-sac streets are created, at least one eight-4 foot wide pedestrian access easement shall be provided, to 5 the extent practicable, between each cul-de-sac head or 6 street turnaround and the sidewalk system of the closest 7 adjacent street or pedestrian pathway. This requirement shall 8 not apply where it would result in damage to or intrusion into 9 significant natural areas such as stream corridors, wetlands 10 and steep slope areas. 11 External Street Connectivity C. 12 The arrangement of streets in a development shall provide for 13 the alignment and continuation of existing or proposed streets 14 into adjoining lands in those cases in which the adjoining 15 lands are undeveloped and intended for future development 16 or in which the adjoining lands are developed and include 17 opportunities for such connections. 18 ii. Street rights-of-way shall be extended to or along adjoining 19 property boundaries such that a roadway connection or street 20 stub shall be provided for development at least every 1,500 21 feet for each direction (north, south, east, and west) in which 22 development abuts vacant lands. The Director may waive 23 this requirement where topography or the presence of 24 sensitive natural areas makes compliance impractical. 25 iii. At all locations where streets terminate with no street 26 connection, but a future connection is planned or 27 accommodated, a sign shall be installed at the location with 28 the words "FUTURE ROAD CONNECTION" to inform 29 property owners. 30 Vehicular Access to Public Streets d. 31 Any development of more than 100 residential units or additions to 32 existing developments such that the total number of units exceeds 33 100 shall be required to provide vehicular access to at least four 34 public streets unless such provision is deemed impractical by the 35 Director, Traffic Engineer, and Municipal Engineer due to topography, 36 natural features, rural character (if the area within which the 37 development is located is rural), or the configuration of adjacent 38 developments. 39 Connections to Vacant Land e. 40 Where new development is adjacent to land likely to be developed or 41 redeveloped in the future, all streets, bicycle paths, and access ways 42 in the development's proposed street system shall continue through 43 to the boundary lines of the area, as determined by the Director. 44 Traffic Engineer, and the Municipal Engineer, to provide for the 45 orderly subdivision of such adjacent land or the transportation and 46 access needs of the community. In addition, all redevelopment and 47 street improvement projects shall take advantage of opportunities for

retrofitting existing streets to provide increased vehicular and pedestrian connectivity.

f. Cul-de-Sacs and Dead-End Streets

The design of street systems is encouraged to use through-streets. Permanent cul-de-sacs and dead-end streets are appropriate when topography, the presence of natural features, and/or vehicular safety factors make a vehicular connection impractical. Where cul-de-sacs or dead-end streets are unavoidable, site and/or subdivision plans shall incorporate provisions for future vehicular connections to adjacent, undeveloped properties, and to existing adjacent development where existing connections are poor.

g. Cross Access to Adjacent Properties

All non-residential development shall be designed to allow for cross-access to adjacent properties to encourage shared parking and shared access points on public or private streets. When cross-access is deemed impractical by the Traffic Engineer or Municipal Engineer on the basis of topography, the presence of natural features, or vehicular safety factors, this requirement may be waived provided that appropriate bicycle and pedestrian connections are provided between adjacent developments or land uses. A cross access easement must be recorded prior to issuance of a Certificate of Zoning Compliance for the development.

h. Neighborhood Protection from Cut-through Traffic

Street connections shall connect neighborhoods to each other and to local destinations such as schools, parks, greenbelt trail systems and shopping centers, while minimizing neighborhood cut-through vehicle traffic movements that are non-local in nature. Configuration of local and internal streets and traffic calming measures shall be used to discourage use of the local street system for cut-through collector or arterial vehicle traffic.

E. Standards for Pedestrian Facilities

1. Sidewalks

- a. All sidewalks shall be designed to comply with the standards of the Design Criteria Manual (DCM) and Municipality of Anchorage Standard Specifications (MASS).
- b. Sidewalks shall be installed on both sides of all arterials, collector streets, and local streets (including loop streets and cul-de-sacs), and within and along the frontage of all new development or redevelopment. This requirement shall not apply to local streets in districts in which the minimum lot size is 40,000 square feet or greater or in steep-slope areas where sidewalks on one side of the street may be approved by the Director to reduce excessive slope disturbance, adverse impacts on natural resources, and potential soil erosion and drainage problems.²³
- **c.** To the extent reasonably feasible, pedestrian crossings shall be made safer for pedestrians whenever possible by shortening

crosswalk distance with curb extensions, reducing sidewalk curb radii, and eliminating free right-turn lanes. Signals that allow longer crossing times in commercial and mixed-use districts, mid-block crossings in high-pedestrian use areas (if well-marked and traffic speeds are low), and raised crosswalks and medians shall be provided as appropriate.

2. On-site Pedestrian Walkways

a. Continuous Pedestrian Access

Pedestrian walkways shall form an on-site circulation system that minimizes conflict between pedestrians and traffic at all points of pedestrian access to on-site parking and building entrances.

b. On-site Pedestrian Connections

Site plans shall orient to pedestrian site access points and connections to surrounding street and trails networks, to destinations such as schools or shopping within one-quarter mile of the site, and to pedestrian linkage points on adjacent parcels, including building entrances, transit stops, walkway easements, and signalized street crossings. On-site pedestrian walkways shall connect (a) building entrances to one another and (b) from building entrances to public sidewalk connections and existing or planned transit stops. If buildings are not placed directly on the public sidewalk, then pedestrian walkways shall link the principal pedestrian site access to building entrances. All developments that contain more than one building shall provide walkways between the principal entrances of the buildings.

c. Through-Block Connections

Within residential and/or non-residential developments, pedestrian ways, crosswalks, or multi-purpose trails no less than five feet in width shall be constructed near the center and entirely through any block that is 900 feet or more in length where necessary to provide adequate pedestrian circulation or access to schools, churches, retail stores, personal service establishments, recreational areas, or transportation facilities.

d. Cul-de-sacs and Dead-end Streets

Where residential developments have cul-de-sacs or dead-end streets, such streets shall be connected to the closest local or collector street or to cul-de-sacs in adjoining subdivisions via a sidewalk or multi-use path, except where deemed impractical by the Director.

3. Trails

While not encouraged to substitute for a good system of on-street facilities, multi-use trails may be used to enhance pedestrian and bicycle travel where the existing circulation system does not serve these needs well, or where other open spaces provide corridors free of obstacles. However, all trails shall connect to the street system in a safe and convenient manner, and shall meet the following requirements in addition to the standards contained in the Areawide Trails Plan, Design Criteria Manual (DCM), and Municipality of Anchorage Standard Specifications (MASS):

1 2		a.	All trail connections shall be well-signed with destination and directional signing.
3 4		b.	All trails shall connect origin and destination points such as residential areas, schools, shopping centers, parks, etc.
5 6		c.	All trails shall be built in locations that are visible and easily accessible, for the personal safety of users.
7 8		d.	Trails shall be designed in such a manner that motor vehicle crossings can be eliminated or significantly minimized.
9 10 11 12 13 14 15 16	4.	Use an a.	d Maintenance of Sidewalks, Walkways, and Trails Restrictions on Use Sidewalks, walkways, and trails are intended to provide pedestrian access. Vehicle parking, required snow storage for vehicle areas, garbage containers, merchandise storage or display, utility boxes and poles, signs, trees, and other obstructions shall not encroach into the required minimum clear width of any required sidewalk, trail, walkway, or other pedestrian way. Pedestrian amenities including bollards and garbage containers for pedestrians are exempt from this requirement.
18 19 20 21		b.	Maintenance and Snow Removal Sidewalks, trails, and walkways required by this title shall be maintained in usable condition throughout the year, including snow removal as appropriate.
22	F. Sta	andards for	Bicycle Facilities
23 24 25 26 27 28	1.	Locatio informa Manual and loc	e Lanes Encouraged one for bicycle lanes are identified in the Areawide Trails Plan and ation about the design standards are included in the Design Criteria. Bicycle lanes are encouraged in the design of all arterial, collector, cal streets where low traffic speeds and volumes allow bicyclists and its to share the road safely.
29	21.07.070 NEIGHBO	RHOOD PRO	OTECTION STANDARDS ²⁴
30	A. Pu	irpose and F	Relationship to Other Requirements
31 32 33 34 35 36 37	thr de pro ma res	ough discretivelopment state of the color of	rovides for transitions between non-residential and residential uses, ionary approval criteria that may be applied in combination with other tandards in this chapter 21.07, in order to provide significantly more eighborhoods from the impacts of adjacent development. This section is a menu of additional tools to use in discretionary approvals to protect horhoods from potential adverse impacts of adjacent nonresidential limitations on hours of operation, noise, and lighting.
38	B. Ge	eneral Condi	tions
39 40 41	su	bdivision, or	of the approval of any conditional use permit, site plan review ²⁵ , variance of any nonresidential use located in or within 300 feet of any ict, the decision-making body shall be authorized to impose conditions

1 that are necessary to reduce or minimize any potential adverse impacts on residential 2 property. Such conditions may include but are not limited to the following: 3 1. Hours of operation and deliveries: 4 2. Location on a site of activities that generate potential adverse impacts on 5 adjacent uses, such as noise and glare; 6 3. Placement of trash receptacles, compactors, or recycling; 7 4. Location and screening of loading and delivery areas; 8 5. Lighting location, design, intensity, and hours of illumination; 9 6. Placement and illumination of outdoor vending machines, telephones, or 10 similar outdoor services and activities: 11 7. Additional landscaping and screening to mitigate adverse impacts; 12 8. Height restrictions to preserve light and privacy and views of significant 13 features from public property and rights of way; 14 Preservation of natural lighting and solar access; 9. 15 10. Ventilation and control of odors and fumes; and 16 11. Paving to control dust. Residential Development Adjacent To Existing Commercial or Industrial Use²⁶ 17 C. 18 When a residential development is proposed adjacent to an existing commercial or 19 industrial use, the decision-making body may impose neighborhood protection 20 standards and may require the residential development to be configured and dwelling 21 units located to minimize potential conflicts with or adverse impacts from the existing 22 industrial development. Any required mitigation measures shall be installed and 23 maintained by the residential development, not the existing commercial or industrial 24 use. 25 21.07.080 LANDSCAPING, SCREENING, AND FENCES²⁷ 26 Α. **Purpose** 27 This section is intended to ensure that new landscaping and the retention of existing 28 vegetation is an integral part of all development and that it contributes added high 29 quality to development, retains and increases property values, improves the 30 environmental and aesthetic character of the community. It is also the intent of this 31 section to provide flexible requirements that encourage and allow for creativity in 32 landscape design. Specific purposes include to: 33 1. Improve the general appearance of Anchorage, its aesthetic appeal and 34 identity, and the image of its street corridors and urban districts;

1 2. Encourage a pleasant visual character for new development which recognizes 2 aesthetics and safety issues; 3 3. Unify development and enhance and define public and private spaces: 4 4. Improve compatibility between land uses by reducing the visual and 5 operational impacts of more intensive uses upon adjacent properties; 6 5. Promote the use of existing vegetation and retention of Anchorage's trees, 7 woodlands and urban forest; 8 6. Reduce runoff and erosion, control dust, and preserve air and water quality; 9 10 7. Encourage use of native plants or provide landscaping that is compatible with 11 the climate and natural setting of the Anchorage area and can provide desired 12 effects even during harsh urban and winter conditions. 13 B. **Applicability** 14 All development, unless specifically exempted in this section 21.07.080 shall comply 15 with the landscaping and screening standards of this section 21.07.080. Additional 16 landscaping may be required by other standards set forth in this title. Except where 17 specifically stated otherwise, the following development is exempt from the 18 requirements of this section: 19 1. Individual single-family, two-family and townhouse residential dwellings on 20 separate lots, where such residential use is the primary use on the lot; 21 2. New single-family, two-family and townhouse subdivisions with fewer than 5 22 lots and less than 5 dwellings; and 23 3. Temporary uses listed in section 21.05.080, except that landscaping and/or 24 screening may be required pursuant to the provisions for the specific 25 temporary use in section 21.05.080. C. Landscaping Plan²⁸ 26 27 All landscaping and screening required under this section 21.07.080 shall be reflected 28 on a landscaping plan reviewed and approved by the decision-making body. Such 29 plan may be combined with any land clearance, vegetation protection, erosion control, 30 or snow removal plan required for compliance with other sections of this title. Where 31 a landscaping plan is required under this title, the plan shall include the information 32 specified in the Title 21 User's Guide. 33 D. Alternative Equivalent Compliance 34 The standards of this section 21.07.080 are intended to encourage development 35 which is economically viable and allow creative solutions while achieving the intent of this section. Site conditions may arise where normal compliance is impractical or 36 37 impossible, or where the maximum achievement of the Municipality's objectives can 38 be obtained through alternative compliance. The alternative equivalent compliance 39 procedure set forth in subsection 21.07.010.B. may be used to propose alternative

means of complying with the intent of this section. Any proposed alternative landscaping and screening shall be equal to or greater than normal compliance in terms of quality, durability, hardiness and ability to fulfill the standards of this section. In order to be considered for alternative equivalent compliance, one or more of the following landscaping-specific conditions shall be met:

- 1. Topography, soil, vegetation, or other site conditions are such that full compliance is impossible or impractical; or improved environmental quality would result from the alternative compliance;
- 2. Sites involving space limitations or unusually shaped parcels may justify alternative compliance for in-fill sites and for improvements and redevelopment in older areas;
- **3.** Safety considerations make alternative compliance necessary; or
- **4.** An alternative compliance proposal is equal to or better than normal compliance in its ability to fulfill the intent of this section.

E. Cross-reference to Other Requirements

Any use required to provide landscaping or screening pursuant to the use-specific standards of sections 21.05.030 through 21.05.060 shall provide such use-specific landscaping or screening. In the event of a conflict between the use-specific requirements and the requirements of this section 21.07.080, the use-specific provisions shall govern.

F. Landscaping²⁹

1. General Description of Landscaping Requirements

Four types of landscaping³⁰ may be required for a development, depending on the use and zoning district of the property and adjacent properties, and the portion of the property involved. These types of landscaping are: (1) site enhancement landscaping, (2) site perimeter landscaping, (3) parking lot landscaping, and (4) trees. Each type of required landscaping shall meet the minimum standards of subsection 21.07.080G, *General Landscaping Requirements and Standards*, and shall be shown on a landscaping plan that meets the requirements of subsection 21.07.080C, Landscaping Plan, unless exempted by the terms of those sections. The type and amount of planting material required to meet these requirements is determined by adding up "landscape units," which are described in subsection 21.07.080F.3. below. The site enhancement, site perimeter, parking lot and tree landscaping requirements are set forth in subsections 21.07.080F.4., 5., 6., and 7. below.

2. Shared Credit among Landscaping Types

Credit for one type of landscaping may be applied to another, within the following parameters:

 Landscaping provided to meet a site perimeter landscaping requirement may be used to satisfy a requirement for parking lot perimeter landscaping, or vise versa, along the same lot line or street frontage;

- **b.** Trees retained or planted as part of site enhancement, perimeter or parking lot landscaping may be counted toward a tree landscaping requirement, where the landscaping area coincides with a required tree area:
- **c.** Trees retained or planted as part of a tree requirement may count toward other kinds of landscaping:
- **d.** Where one kind of required landscaping area coincides with another, the stricter provisions shall apply; and
- e. Site enhancement and interior parking lot landscaping may not be counted toward site perimeter or parking lot perimeter landscaping. Interior parking lot landscaping requirements may not be met by any other type of landscaping.

3. Landscape Units Awarded

To provide for flexibility, allow design creativity, and encourage use of larger trees and retention of natural vegetation, the required amount of planting material for site enhancement, site perimeter, parking lot or tree retention landscaping is based on a "landscape units" point system. The number of units awarded to each landscaping element is as follows:

TABLE 21.07-2: LANDSCAPE UNITS AWARDED								
Landscape Material	Landscape U	nits Awarded						
	Newly Installed	Existing Retained						
Landmark or Signature Tree	n/a	16						
Evergreen Tree, >10 ft high	8	14						
Evergreen Tree, >8 – 10 ft high	8	11						
Evergreen Tree, 6 – 8 ft high	6	9						
Deciduous Tree, > 8" caliper	n/a	14						
Deciduous Tree, >4 – 8" caliper	n/a	11						
Deciduous Tree, >2.5 – 4" caliper	7	7						
Deciduous Tree, 1.5" – 2.5" caliper or multi-stem	4	4						
Shrubs, 36" high	1	1.2						
Shrubs, 24" high	0.8	0.9						
Shrubs, 18" high	0.5	0.6						
Perennials/ground cover	1 per 400 sq ft							
Annual flower bed	1 per 400 sq ft							
Lawn Grass	1 per 800 sq ft							
Flower Basket Support	0.2 per basket							
Earthen Berm, minimum 18" high	0.05 per l	inear foot						

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TABLE 21.07-2: LANDSCAPE UNITS AWARDED								
Hardscape Material	Units Awarded							
Decorative (Ornamental) Fence	0.20 per linear foot							
Screening (Opaque) Fence (6 ft high or greater)	0.40 per linear foot							
Shredded bark or 3"+ rock mulch such as river rock	1 per 500 sq ft							
Ornamental pavers	1 per 250 sq ft							
Landscape Boulders, 3' or greater in height	1 per boulder							
Seating	0.40 per linear foot							
Landscape lighting, sculpture, art, water feature, and/or sheltering structure/landmark	As determined by UDC, per 21.07.080.E.1.d							

Retained Existing Vegetation Mass [1]	Bonus Landscaping Units Awarded
300+ square feet with a minimum of 3 deciduous trees (4" caliper or greater), 3 evergreen trees (minimum 6 feet high) or any combination thereof	15%
500+ square feet with a minimum of 5 deciduous trees (4" caliper or greater), 5 evergreen trees (minimum 6 feet high) or any combination thereof	20%
800+ square feet with a minimum of 8 deciduous trees (4" caliper or greater), 8 evergreen trees (minimum 6 feet high) or any combination thereof	25%

NOTES:

[1] Points awarded for retained vegetation in perimeter buffers may only be applied in the buffer area along the same lot line or street frontage where the vegetation is found.

Site Enhancement Landscaping³¹ 4.

Purpose a.

Site enhancement landscaping increases the greenery and seasonal color on open areas of a site, adding beauty to both the property and the community. It includes foundation plantings, front, side and rearyard greenery, and common area plantings, but not street frontage space, parking lots or site perimeter buffers. It enhances the appearance and function of the building and site and reinforces its continuity with the surrounding properties. For example, site enhancement landscaping can provide orientation and improve pedestrian comfort.

b. Applicability of Site Enhancement Landscaping

All ground surfaces on any development site that are not devoted to buildings, structures, storage yards, drives, walks, off-street parking or other authorized facilities, and not otherwise devoted to landscaping required by this chapter, shall provide site enhancement landscaping.

C. Specifications for Site Enhancement Landscaping

In any area where site enhancement landscaping is required, a minimum of 1 landscape unit per 50 square feet (.02 units per 1 square foot) of planting area shall be provided, with at least one-half of the landscape units being trees. Buildings shall be separated from vehicle driveways or parking areas by a walkway or foundation

plantings, except in loading service areas and in industrial zones or the AD district.

5. Site Perimeter Landscaping

a. Purpose

Site perimeter landscaping separates land uses of different characteristics or intensities, to minimize the effects of one land use on another. It softens or reduces unwanted views, operational effects, and other impacts of a land use on adjacent properties. Buffers include the use of trees, shrubs, setbacks devoted to vegetation, berms and fences. Perimeter landscaping can also mark the interface between public streets and individual property, soften the visual impacts of development on public streets, and help to frame Anchorage's streetscapes with trees and vegetation. Four levels of site perimeter landscaping are provided to accommodate a variety of land uses at a variety of intensities: 32

i. L1 Edge Treatment

Edge Treatment perimeter landscaping is used to define the boundary between private property and public streets, or between two parcels. It is applied where a minimal visual break or buffer is adequate to soften the impacts of a use, and additional landscaping is not necessary. It does not visually obscure the appearance of a land use. It consists of ground covers, perennials, wildflowers, shrubs, fencing, or other hardscape elements.

ii. L2 Buffer

Buffer perimeter landscaping uses a combination of distance and low level buffer landscaping to soften the visual impacts of a use or development, or where visibility between areas is more important than a visually obscuring screen. It is usually applied along street lot lines, and helps to frame Anchorage's streetscapes with consistent treatments of trees and vegetation. It is the narrowest buffer that provides enough planting bed width for trees.

iii. L3 Separation

Separation perimeter landscaping is intended to provide greater physical and visual separation between uses or developments. It provides enough width so that trees may be clustered to provide greater visual buffering.

iv. L4 Screening

Screening perimeter landscaping is employed as the highest level separation where there are incompatible land uses of contrasting character and density. It is also used along freeways to protect major visual corridors and entrance gateways into the community.

b. Applicability of Site Perimeter Landscaping

Site perimeter landscaping shall be provided along the perimeter property line of development sites, except for at approved points of

pedestrian or vehicle access, in accordance with Table 21.07-3 as follows:

TABLE 21.07-3: APPLICABILITY OF SITE PERIMETER LANDSCAPING										
District of Proposed	Required Level of Site Perimeter Landscaping (Level 1, 2 or 3) Adjacent to the Following Zoning Districts or Streets:									
Development	R-5 to R-10, TA, W	R-1, R-2, R-3	R-4, RMX, O	C-2 (A,B,C), RCMU	NMU-1, NMU-2, CCMU	AC, I-1	OL	Freeway [2]	Collector, Arterial, Expressway	
R-5 - R-10, TA [1]								L4	L2	
PLI	L3	L2	L2					L4	L3	
R-1, R-2 [1]	L2						L2	L4	L2	
R-3 [1]	L3	L2					L2	L4	L2	
R-4, RMX	L4	L3					L3	L4	L2	
C-2 (A, B, C)								L4		
NMU-1, NMU-2, CCMU, O	L3	L2	L2				L3	L4		
RCMU, MMU		L3	L2		L2		L3	L4		
AC, MC	L3	L3	L3	L2	L2		L3	L4	L2	
I-1 IC	L3	L3	L3	L2	L2		L3	L4	L2	
AF	L3	L3	L3	L3	L3			L4	L4	
MI, I-2, AD	L4	L4	L4	L3	L3	L2	L4	L4	L2	
Non-residential use in R zone	L3	L2	L2				L2	L4	L2	

NOTES:

[1] Individual single-family, two-family and townhouse residential dwellings on separate lots, or to new single-family, two-family and townhouse subdivisions with fewer than 5 lots and less than 5 dwellings are exempt from site perimeter landscaping requirements. L4 screening landscaping requirement along freeways shall apply to any lot adjacent to the right-of-way of a freeway designated in the OS&HP on roadway sections built to freeway design standards with full grade separations of intersecting streets, or to streets functioning as frontage roads for such freeways.

c. Specifications for Site Perimeter Landscaping

In any area where site perimeter landscaping is required according to Table 21.07-3, the planting requirements in Table 21.07-4 shall apply. The amount of landscaping required in Table 21.07-4 is measured per linear foot of property line or street frontage. Access driveways shall not be subtracted from the linear frontage in calculations of the amount of landscaping required. If there are driveways along the frontage or property line, required landscaping shall be condensed into the remaining site perimeter landscaping area.

TABLE 21.07-4: SPECIFICATIONS FOR SITE PERIMETER LANDSCAPING						
Requirement	L1 Edge Treatment	L2 Buffer	L3 Separation	L4 Screening [3]		
Planting Area Width (minimum average) [1]	3 ft	8 ft	15 ft	30 ft.		
Planting Area Width (minimum at any point) [1]	3 ft	8 ft	12 ft	20 ft		
Total Landscape Units Required per linear foot of property line or street frontage	0.30 units per linear foot	0.40 units per linear foot	1.1 units per linear foot	2.2 units per linear foot		
Minimum number of landscape units that shall be trees	none	0.25 units per linear foot	0.60 units per linear foot	1.5 units per linear foot [4]		
Minimum number of landscape units that shall be evergreen trees	none	none	0.30 units per linear foot [2]	1.0 units per linear foot [2]		
Minimum number of landscape units that shall be shrubs	0.20 units per linear ft, either hedge or fence	0.05 units per linear foot	0.10 units per linear foot	0.15 units per linear foot		
Additional Standards:	1		L	1		

Additional Standards:

- [1] Minimum width of planting area shall be measured as the width of the planting beds between the back of edge curbing. Where there will be vehicle overhang along any curb edge, add 2 feet to the required minimum width.
- [2] Because of low sun angles at Anchorage's latitude, in order to minimize solar shadowing of abutting residential lots in the spring and fall, the director may waive the requirement that a minimum number of trees shall be evergreen, along north lot lines that abut residential or mixed-use districts, where the lot line runs within 30 degrees of east-west.
- 131 No sign of any kind is permitted along freeways within the planting area of L4 Screening perimeter landscaping.33
- [4] Existing natural vegetation in any required L4 Screening perimeter landscaping area shall not be disturbed, provided that, if that vegetation does not meet the standards for L4 Screening, screening landscaping shall be planted. Existing vegetation cannot be disturbed to achieve the screening standard through supplemental plantings. If disturbed, it shall be restored.³⁴

Parking Lot Landscaping³⁵ 6.

Purpose

Parking lot landscaping softens and adds texture to extensive paved surfaces associated with multifamily residential and non-residential development. It also contributes to storm water management, provides orientation to entrances, increases outdoor comfort levels, and mitigates wind and dust in large parking areas. Parking lot landscaping is intended as a visual buffer that softens visual impacts, not a barrier that eliminates natural surveillance. It consists of perimeter and interior parking lot landscaping.

Applicability of Parking Lot Landscaping b.

Parking lot landscaping requirements shall apply to parking lots with six (6) or more parking spaces that are accessory to any multifamily

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1 or non-residential building or use established, and to parking lots that 2 are the principal use on a site. 3 Parking Lot Perimeter Landscaping C. 4 Perimeter parking lot landscaping shall be required for all parking lots 5 having more than five spaces where the parking lot is adjacent to a 6 public street or a non-retail use such as a residential area. 7 institutional use (e.g., hospital), or office, as provided below. 8 i. General Requirement 9 The parking lot perimeter landscaping requirement may be 10 satisfied by complying with one of the following options: 11 (A) Option 1: L4 Screening as defined in subsection 21.07.080F.5.a.iv. and Table 21.07-4; or 12 13 Option 2: L3 Separation as defined in subsection (B) 14 21.07.080F.5.a.iii. and Table 21.07-4, 15 ornamental fencing and a maximum two-foot vehicle 16 overhang area or no parking spaces adjacent to the 17 landscaping. This option shall be available only to 18 parking lots with fewer than 100 spaces, or if less 19 than 70 percent of the parking spaces are located in 20 the Front Parking Area; or 21 (C) Option 3: L2 Buffer as defined in subsection 22 21.07.080F.5.a.ii. and Table 21.07-4. with ornamental 23 fencing and no vehicle overhang or no parking 24 spaces adjacent to the landscaping. This option shall 25 be available only to parking lots with fewer than 40 spaces, or if less than 50 percent of the parking 26 27 spaces are located in the Front Parking Area. 28 (D) Option 4: Where lots are being developed under a 29 common site plan, master site plan, or joint 30 parking/circulation plan in a mixed-use district, the 31 parking lot perimeter landscaping requirement may 32 be waived along an interior lot line, providing that 33 interior parking lot landscaping applies to both 34 parking lots together. 35 ii. Exceptions - Mixed Use Zoning Districts 36 (A) Option 2 from the subsection above is available to any 37 parking lot; 38 (B) Option 3 from the subsection above is available to any 39 parking lot in which less than 50 percent of the 40 parking spaces are located in the Front Parking Area. 41 (C) L1 Edge Treatment perimeter landscaping as defined 42 in subsection 21.07.080F.5.a.i. and Table 21.07-4, 43 may be used to satisfy a parking lot perimeter 44 requirement along interior lot lines. It may also be

1 2 3 4				used to satisfy a parking lot perimeter requirement along a public street frontage, where the street right-of-way improvements include a planted landscaping strip that provides street trees.
5 6 7 8		iii.	L1 Éd subsec	tions - Central Business Zoning Districts ge Treatment perimeter landscaping as defined in tion 21.07.080F.5.a.i. and Table 21.07-4, may be used by the parking lot perimeter requirement.
9 10 11 12 13 14 15 16 17		iv.	In order during resider adjace inches that is in heig applica	er to reduce the impact of obtrusive glare on residences the darker months, parking stalls that face an abutting nitially zoned property shall be screened from the nt property by a fence with a maximum height of 42 measured from the surface of the parking stall, and a screening (opaque) fence between 20 and 42 inches th. The Director may waive this requirement where the ant demonstrates this standard will inhibit needed lance, or that other obstructions or topography satisfy andard.
20 21 22 23		v.	For an trees	eter Landscaped Areas Wider than 20 Feet y landscaped areas wider than 20 feet, the required and shrubs shall be located within ten feet of the ty line and adjacent public right-of-way or sidewalk.
2.4	d.	Parkin	a Lot In	terior Landscaping ³⁶
<u> </u>				
24 25	u.	i.		nt Required
	u.	_	Amour Parking	
25 26 27 28	u.	_	Amour Parking	at Required g lot interior landscaping shall be required for all
25 26 27	u.	_	Amour Parking develo	nt Required g lot interior landscaping shall be required for all pment with 20 or more parking spaces, as follows:
25 26 27 28 29 30	u.	_	Amount Parking develo	of Required g lot interior landscaping shall be required for all pment with 20 or more parking spaces, as follows: More than 40 spaces An area equal to at least ten percent of the surface of the parking area on the site, including appurtenant driveways shall be devoted to landscaping.
25 26 27 28 29 30 31	u.	_	Amour Parking develo	of the Required good interior landscaping shall be required for all pment with 20 or more parking spaces, as follows: More than 40 spaces An area equal to at least ten percent of the surface of the parking area on the site, including appurtenant driveways shall be devoted to landscaping. 20 to 40 spaces An area equal to at least five percent of the surface of
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25 26 27 28 29 30 31 32 33 34 35	u.	i.	Amount Parking development (A) (B) Minimum The minim	of the parking area on the site including appurtenant driveways shall be least five percent of the surface of the parking area on the site, including appurtenant driveways shall be devoted to landscaping. 20 to 40 spaces An area equal to at least five percent of the surface of the parking area on the site including appurtenant driveways shall be devoted to landscaping.
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25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	u.	i. ii.	Amount Parking development (A) (B) Minimum The minimum feet with area. Minimum In any	of the price of the surface of the parking area on the site, including appurtenant driveways shall be devoted to landscaping. 20 to 40 spaces An area equal to at least five percent of the surface of the parking area on the site, including appurtenant driveways shall be devoted to landscaping. 20 to 40 spaces An area equal to at least five percent of the surface of the parking area on the site including appurtenant driveways shall be devoted to landscaping, 21 Image: Landscaping Area Size inimum size of any interior planting area shall be eight de measured from back-of-curb and 200 square feet in the surface of the parking Requirements of required interior parking lot landscaping area, a
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	u.	i. ii.	Amount Parking development (A) (B) Minimum The minimum feet with area. Minimum In any minimum per 1 september 1 september 2	of the parking area on the site including appurtenant driveways shall be devoted to landscaping. **The parking area on the site, including appurtenant driveways shall be devoted to landscaping. **The parking area on the site including appurtenant driveways shall be devoted to landscaping. **The parking area on the site including appurtenant driveways shall be devoted to landscaping, appurtenant driveways shall be devoted to landscaping, **Image: **The parking area on the site including appurtenant driveways shall be devoted to landscaping, **Image: *

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37 38 39 40 41 42 43 44 45	

iv. Landscape Massing

Landscaping should be massed rather than spread throughout the interior of a lot to create a more significant visual impact, to increase the rate of survival of the landscaping, and to facilitate snow removal. Trees and shrubs should be massed within planting areas to protect them from damage and to facilitate snow removal/storage.

v. Preferred Locations

The preferred locations for planting areas within parking lots are along major drives and entryways, dividing more than two double-loaded parking bays, and outlining pedestrian walkways within the parking areas.³⁷

vi. Natural Surveillance and Safety

Good visibility in parking lots is important for both security and traffic safety reasons. Plants and trees that restrict visibility, such as tall shrubs and low branching trees, should be avoided. Therefore, parking lot interior landscaping shall minimize vegetation and solid or semi-open fences between 3 feet and 7 feet above grade. Berms used as part of interior landscaping areas shall not exceed three feet in height.

vii. Central Business Zone Districts

No interior landscaping shall be required for parking lots within the CBD Districts.

7. Trees³⁸

a. Purpose

This section is a tree requirement for new residential development. It encourages the retention of trees, minimizes the impact of tree loss during construction, and promotes a sustained presence of trees and woodlands in urbanized areas of Anchorage. Trees are an important characteristic of Anchorage, providing economic support of local property values; enhancing the Anchorage's natural beauty and identity; reinforcing the pleasant physical character of residential neighborhoods; protecting anadromous fish and wildlife habitat; ameliorating impacts of development on drainage, soil erosion, air quality, and water quality in Anchorage's water ways; sheltering from inclement weather; and visual buffering of urban development.

b. Applicability of Tree Requirement

The tree requirement applies to new multifamily development and residential subdivisions. The tree requirement does not apply to individual single-family, two-family and townhouse dwellings on a separate lot, where such residential use is the primary use on the lot, or to new single-family, two-family and townhouse subdivisions with fewer than 5 lots and less than 5 dwellings. Nor does it apply to the removal of dead, diseased or naturally fallen trees or vegetation, or trees or vegetation that the Director finds to be a threat to the public health, safety or welfare.

		Sec. 21.07.000 Landscaping, Screening, and Fences
1 2 3 4 5 6 7 8	c.	Minimum Tree Density A minimum of number of tree landscape units, as defined in Table 21.07-2 in subsection 21.07.080F, is required on the buildable area of residential development, as provided below. Tree density may consist of retained trees, installed trees, or a combination of retained and installed trees. For the purpose of calculating required minimum tree density, "buildable area" shall not include areas to be dedicated as public right-of-way.
9 10 11		 A minimum tree density of 165 tree landscape units per acre is required on each single family lot in new residential subdivisions.
12 13		ii. A minimum tree density of 165 tree landscape units per acre is required on each multifamily residential development site.
14 15 16 17 18	d.	Tree Retention and Planting The minimum tree density requirement may be met using trees on the lot. Trees to be retained shall be depicted on the landscaping plan. Where site characteristics or construction preferences to not support tree preservation, tree plantings may be used to satisfy this standard.
19 20 21 22 23 24 25	e.	Tree Retention Priorities Priorities for preservation of existing trees are listed below, in order of descending priority. Landscaping plans should preserve existing trees in the highest priority category of on-site location possible. No tree retention area used to meet the requirements of this section may be located in public or private rights-of-way, utility easements or visibility clearance areas as defined in subsection 21.06.020A.8.
26 27		i. Landmark Trees
28 29 30 31 32 33 34		 iii. Signature Trees iii. Sensitive Environmental Areas and Existing Wooded Areas Sensitive environmental areas and features, including areas with large numbers of mature trees, areas containing multiple signature trees, wetland areas, stream corridors, the margins of existing lakes or ponds, natural drainages, wildlife habitat areas, steep slopes or geological hazard areas.
36 37 38		iv. Required Perimeter Landscaping Areas Areas where site perimeter or parking lot perimeter landscaping is required pursuant to this section 21.07.080.
39 40 41	f.	v. Other Individual Trees or Groups of Trees Tree Tracts
12 13 14 15 16		For residential subdivisions consisting of more than 50 residential lots, at least 75% of the required minimum tree density shall be located within separate deeded tree tracts held in common ownership by the homeowners association, or comparable entity. Tree tracts shall be a condition of approval and identified on the face of the plat.

The applicant shall also execute a covenant in a form agreeable to the municipality which shall require compliance of the owner and homeowner's association with the maintenance requirements of this section.

G. General Landscaping Requirements and Standards³⁹

All required landscaping, screening or fences shall comply with the following standards:

1. Plant Materials

8 9

a. Plan

Plant Choices and Quality⁴⁰ Plant species selected shall

Plant species selected shall be adapted to the local climate and suitable for the site. Trees, shrubs, and groundcover plants affected by streets, driveways, and parking lots shall be salt-resistant, tolerant to urban conditions such as pollution, and should be drought-tolerant to ensure a low-maintenance landscape and increase survival rates. All plant materials for required landscaping and screening shall be selected from the Anchorage Master Tree and Shrub List, and shall be living and free of defects; and of normal health, height, and spread as defined by the American Standard for Nursery Stock, ANSI Z60.1, latest available edition, American Nursery and Landscaping Association. Plants may be nursery grown, field grown, or transplanted, provided transplanting meets ANSI standards.

b. Credit for Retaining Existing Plant Materials

Given the short growing season, difficulty in establishing vegetation, and the size and character of individual trees, the retention of existing vegetation typically produces a far more beneficial effect in Anchorage than installed landscaping. Therefore, existing vegetation may be retained to meet the standards in a required landscaping area, if vegetation retention areas are protected and maintained during and after construction as specified in [x-ref], *Planting Beds and Vegetation Areas*, below, and if the vegetation is not listed as prohibited on the Anchorage Master Tree and Shrub List. If existing vegetation does not meet the standards for the required landscaping area, then it may be supplemented with installed landscaping as necessary to comply with the requirement. Applicants receive greater credit for retained trees than for planted trees, as provided in Table 21.07-2, *Landscape Units Awarded*.

c. Winter Color and Interest

The use of plants with year-round color and texture to offset the reduced daylight and whites, browns, and grays of the seven months outside of the growing season is encouraged. The use of permanent hardscape features such as landscape lighting, landscape boulders, or landscape structures that provide color and interest year-round may be counted toward the total landscaping units required for landscaping, as provided in table 21.07-2. Awarding of landscaping units for artistic sculptures and aesthetic landscape lighting shall be determined by the Urban Design Commission through a non-public hearing review.

d. Tree Plantings

Planted and transplanted trees shall be mulched with composed mulch 4 inches or more in depth. Species selection and spacing of trees to be planted shall be such that it provides for the eventual mature size of the trees. Soil type, soil conditions and other site constraints shall be considered when selecting species for planting or transplanting. Evergreen trees installed shall meet the ANSI standard of having a minimum 5:3 height to spread ratio.

2. Planting Location⁴¹

Tree planting shall take into consideration the growth habits of each species and shall allow adequate space for healthy growing conditions.

a. Adequate Distance from Curb

Plants placed adjacent to public sidewalks and curbs where issues of obstruction and interference with pedestrians and vehicles are likely to occur shall include appropriate plant materials such as trees with high canopies. Trees installed to meet the requirements of this title shall provide a minimum of 8 foot vertical clearance over sidewalks and walkways and 14 foot vertical clearance over streets, parking, driveways and other vehicle operation areas. Plant materials that can accommodate vehicle overhangs including low shrubs and perennials are required for the first 3 feet from back-of-curb where there will be vehicle overhang.

b. Wind Protection and Sunlight Access

Location of trees and landscaping areas to increase the hospitability of outdoor climates and extend the warm outdoor season is encouraged. Planting clusters or shelterbelts can shelter proposed building entrances, parking areas, or outdoor pedestrian spaces against prevailing winter winds and precipitation, and airborne dust during early spring after breakup. Evergreen trees should be located in careful consideration of wind protection and/or maintaining sun exposure for windows, sidewalks, and outdoor spaces during fall and spring.

c. Utility Easements⁴²

Where required landscaping areas are parallel to utility easements, fifty percent of the landscaping area may be located in the utility easement, provided that any required trees are planted in that part of the landscaping area that does not coincide with the utility easement. Where a utility easement crosses a required landscaping area, trees shall not be planted in the area that coincides with the utility easement. The utility is not responsible for replacement of disturbed landscaping within the utility easements. The utility must provide written notice to the affected property owner at least one week prior to disturbance of the landscaping, except in emergencies involving life or safety.

d. Visibility Clearance Areas

All landscaping and screening materials shall comply with the visibility clearance requirements of chapter 21.06.020A.8.

					Coo. 21.07.000 Earnacoaping, Corecting, and 1 choos
1 2 3 4 5 6 7 8 9	3.	Plantin a.	All requestincludir approvenicul	tion of I uired land ed from ng parkind ed barrid ar use a rked or	Landscaping adscaped areas, particularly trees and shrubs, shall be potential damage by adjacent activities and uses, and and storage areas. Concrete barrier curbs or other ers at least six inches high shall be provided between areas and landscaped areas. Landscaped areas shall otherwise made to be visible during snow removal
10 11 12 13		b.	Tree rethis se	etention ction 21	areas used toward landscaping requirements under .07.080 shall be adequately protected from damage ence to the following:
14 15 16 17 18 19			i.	A cons retaine fence s place u	uction Fence shall be placed around each tree to be d at or beyond the edge of the critical root zone. The shall be placed before construction starts and remain in until construction is complete. The fence shall meet the following:
20 21				(A)	The fence shall be 6-foot high orange plastic and be secured to the ground with 8-foot metal posts; or
22 23				(B)	The fence shall be 6-foot high steel, such as chain link, on concrete blocks.
24 25 26			ii.	Within	pment Limitations in Tree Retention Areas the root protection zone of each tree, the following pment is not allowed:
27 28				(A)	Grade change, excavations, or cut and fill, either during or after construction;
29				(B)	New impervious surfaces;
30				(C)	Utility or drainage field placement;
31 32				(D)	Attachment of objects to a tree designated for retention;
33 34 35				(E)	Staging or storage of materials and equipment, vehicle maneuvering areas, or other activities likely to cause soil compaction or above-ground damage;
36 37				(F)	Placement, storage or dumping of solvents, soil deposits, excavated material, or concrete washout.
38 39 40 41			iii.	Any lar	quent Landscaping Work Indscaping done in the critical root zone subsequent to moval of construction barriers shall be accomplished th machinery or hand labor.

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c. Raised Planting Beds

Raised planting beds are encouraged to increase the durability and effectiveness of landscaping and to protect the landscaping investment. Raised planting beds surrounded by a minimum 18-inch high wall may be reduced in width by two feet from the minimum required planting area width of any site perimeter or parking lot perimeter landscaping area. Wall height may be reduced to 12-inches where there will be no vehicle overhang.

d. Berms

Berms may be incorporated into any required landscaping or screening area, except that berms are prohibited in mixed-use and central business zoning districts. Berms for on-site landscaping shall not be placed in a public right of way, and shall not interfere with natural drainage or cause water to be drained onto streets. No installed berm shall have a slope of greater than 3:1.

e. Retention Ponds

Retention ponds shall be physically, functionally, and visually integrated into adjacent landscape uses through the use of topography, building and parking lot placement, plantings, permanent water features, recreational or open space amenities, or other methods.

4. Installation of Landscaping⁴³

All required landscaping and screening shall be installed by the developer. All landscaping shall be installed before a certificate of zoning compliance is issued. If a certificate of zoning compliance is requested between September and May, then the certificate shall be conditioned upon the landscaping being installed before the following June 30. A letter of credit, escrow, performance bond, or other surety approved by the municipal attorney for proper installation of the landscaping and equal in value to 125 percent of the value of the landscaping, as determined by the project landscape architecture firm, shall remain in place with the Director for 24 months after installation to ensure survival and proper maintenance of the landscaping in accordance with this section. Any landscape element that dies or is otherwise removed or is seriously damaged shall be removed within 30 days of the beginning of the growing season and replaced based on the requirements of this section. The bond shall be subject to forfeit if inspection has not been requested within 18 months. If the owner or other responsible party fails to fulfill this obligation during the first 18 months after installation of the landscaping, the Municipality shall either perform the work and seek reimbursement from the responsible party's or owner's surety, or demand performance by the surety. An initial inspection fee shall be charged as part of the permitting process.

5. Use of Landscaped Areas

Except as provided in F.5.b. above, no structure, parking or loading area, driveway, or paved area may be located in areas required for landscaping pursuant to this title.

6. Maintenance and Replacement

a. Maintenance

Trees, shrubs, and other vegetation, irrigation systems, fences, and other landscaping, screening, and fencing elements shall be considered as elements of a development in the same manner as other requirements of this title. The property owner shall be responsible for regularly maintaining all landscaping elements in good condition. All landscaping shall be maintained free from disease, weeds, and litter to the extent reasonably feasible. Plants that die shall be replaced in kind. All landscaping, screening, and fencing materials and structures shall be repaired and replaced periodically to maintain them in a structurally sound and aesthetically pleasing condition.

b. Irrigation

To ensure that plants will survive, particularly during the critical twoyear establishment period when they are most vulnerable due to lack of watering, the bonding requirement established in subsection 21.07.080G.4 above may be waived for any landscaping area that will be irrigated by one of the following:

- i. A built-in irrigation system with an automatic controller; or
- ii. An irrigation system designed and certified by a licensed landscape architect as part of the landscape plan, which provides sufficient water to ensure that the plants will become established.

H. Screening⁴⁵

1. Purpose

Screening consists of landscaping, the retention of natural vegetation, or the use of physical structures to block views of specific activities or specific parts of a property or structure. Applicants are encouraged to locate the types of features listed in this section where they are not visible from off-site or public areas of a site, so that screening is unnecessary.

2. Applicability

Notwithstanding the exemptions of 21.07.080.C.2.a. and b., all townhouse residential, multi-family residential, public/institutional, commercial, and industrial uses shall be required to provide screening as specified in this subsection 21.07.080.E. to block the views of the specified features from any adjacent street or public open space or any adjacent property or public areas of a site. Public areas of a site include public parking areas, sales areas, outside eating areas, or other areas to which customers, clients, and guests are given regular access.

3. Refuse Collection

In order to improve the image of Anchorage's streets and neighborhoods, to reduce the visual impacts of multi-family and nonresidential development, and to avoid problems with blown trash, snow, and pests, all refuse collection receptacles shall adhere to the standards that follow. For purposes of this section, the term "refuse collection receptacles" includes dumpsters, garbage cans, debris piles, or grease containers, but does not include trash or recycling receptacles for pedestrians or for temporary construction sites. This

section also does not apply to refuse collection receptacles such as garbage cans that are normally stored indoors and brought outdoors on garbage pickup days.

a. Location

Outdoor refuse collection receptacles shall not be located in a required front setback, and should, depending on the size of the site and need for access by refuse collection vehicles, be set back from the front plane of the principal structure. Refuse collection receptacles for non-residential uses shall not be located in any setback area or required landscaping area which abuts an adjacent residential use. Refuse collection receptacles shall not be located within any area used to meet the minimum landscaping or parking and loading area requirements of this chapter, or be located in a manner that obstructs or interferes with any designated vehicular or pedestrian circulation routes onsite.

b. Screening Enclosure

Each refuse collection receptacle shall be screened from view on all sides by a durable sight-obscuring enclosure consisting of a solid fence or wall of between six feet and eight feet in height. Where the access to the enclosure is visible from adjacent streets or residential properties, the access shall be screened with an opaque gate of at least five feet in height. Gates which swing open shall have a one-foot height clearance above grade to account for snow. The walls and gate shall be compatible in architectural design and materials with the principal building(s). The enclosure shall be maintained in working order, and remain closed except during trash deposits and pick-ups.

c. Maintenance of Refuse Collection Receptacle

The lids of receptacles in screening enclosures without roof structures shall remain closed between pick-ups, and shall be maintained in working order.

d. Amortization of Nonconforming Refuse Collection Receptacles⁴⁶ Any lawful permanent refuse collection receptacle erected prior to the adoption of this chapter that does not comply with the requirements of this section shall be removed or altered to comply within [five] years from the effective date of this title.

4. Service and Off-Street Loading Areas

Service and off-street loading areas create visual and noise impacts on surrounding uses and neighborhoods. These standards visually screen onsite service and off-street loading areas from public rights-of-way and adjacent uses.

Service and off-street loading areas shall be designed and located to reduce the visual and acoustic impacts of these functions on adjacent properties and public streets. Non-enclosed service and off-street loading areas shall be screened with durable, sight-obscuring walls and/or fences of between six feet and eight feet in height. Screening materials shall be the same as, or of equal quality to, the materials used for the primary building and landscaping.

5. Rooftop Mechanical Equipment⁴⁷

Rooftop mechanical equipment, including HVAC equipment and utility equipment that serves the structure, shall be screened. Screening shall be accomplished through the use of parapet walls or a sight-obscuring enclosure around the equipment constructed of one of the primary materials used on the primary facades of the structure, and that is an integral part of the building's architectural design. The parapet or screen shall completely surround the rooftop mechanical equipment to an elevation equal to or greater than the highest portion of the rooftop mechanical equipment being screened. Any parapet wall shall have an elevation of no more than four feet. In the event such parapet wall does not fully screen all rooftop equipment then the rooftop equipment shall be enclosed by a screen constructed of one of the primary materials used on the primary façade of the building so as to achieve complete screening from the property line.

6. Wall-Mounted Mechanical Equipment and Meters⁴⁸

Wall-mounted mechanical equipment, including air conditioning or HVAC equipment and groups of multiple utility meters, that extends six inches or more from the outer building wall shall be screened from view from streets; from residential, public, and institutional properties; and from public areas of the site or adjacent sites; through the use of (a) sight-obscuring enclosures constructed of one of the primary materials used on the primary façade of the structure, (b) sight-obscuring fences, or (c) trees or shrubs that block at least 80 percent of the equipment from view. Wall-mounted mechanical equipment that extends six inches or less from the outer building wall shall be designed to blend in with the color and architectural design of the subject building.

7. Ground-Mounted Mechanical Equipment and Utility Fixtures⁴⁹

Ground-mounted above-grade mechanical equipment shall be screened from view from streets; from residential, public, and institutional properties; and from public areas of the site or adjacent sites; through the use of ornamental fences or screening enclosures, or through the use of trees or shrubs that block at least 80 percent of the view. Above-grade ground-mounted utilities are prohibited on sidewalks in the central business and mixed-use zoning districts.

8. Outdoor Merchandise Display Areas⁵⁰

Screening shall be required of outdoor merchandise display areas as set forth in section 21.05.070D.17.

9. Outdoor Storage Areas⁵¹

Screening shall be required of outdoor storage areas as set forth in section 21.05.070D.18.

I. Fences⁵²

1. Applicability

Notwithstanding the exemptions of 21.07.080.C.2, the provisions of this subsection 21.07.080.F shall apply to all construction, substantial reconstruction, or replacement of fences, retaining walls not required for support of a principal or accessory structure, or any other linear barrier intended to delineate different portions of a lot or to separate lots from each

other. The provisions of this subsection do not apply to temporary fencing for

2 construction, emergencies or special public events or performance areas. 3 2. Location 4 A fence may be constructed within property boundaries, or at the lot line, 5 subject to the limitations in this section. No fence shall be installed so as to 6 block or divert a natural drainage flow onto or off of any other property. 7 3. **Maximum Height** 8 Fences shall not exceed the maximum heights set forth below. 9 maximum heights shall be measured from the top of any retaining wall, or if 10 no retaining wall has been constructed, then from natural grade. Unless 11 specifically allowed by this title, no fence shall exceed eight feet in height. 12 In the R-1, R-2, R-3, R-4, and RMX districts, fences in front setbacks a. 13 shall not exceed four feet in height. 14 b. In the R-5, R-6, R-9, and R-10 zone districts, fences in front setbacks 15 shall not exceed six feet in height if the fencing material is sight-16 obscuring. Examples of non-sight obscuring fencing include chain-17 link and split rail fencing. 18 In the CBD, AC, NMU, CCMU, RCMU, MMU, and MC districts, fences C. 19 in front yards shall not exceed three feet in height and shall not exceed eight feet in side or rear yards. 20 21 Enclosures provided as a part of a permitted tennis court, ball field, or d. 22 other recreational facility shall be exempt from the height restrictions 23 of this section. 24 4. **Through Lots** 25 In the case of a through lot, as defined in chapter 21.13, which abuts a street 26 of collector or greater classification, a fence may be constructed within the 27 secondary front setback up to a maximum of eight feet in height, provided that 28 vehicular access to the street is prohibited. A fence higher than four feet, or 29 six feet in zoning districts R-5, R-6, R-9, and R-10, shall not be constructed 30 within a front setback if access to the street is required due to a plat note, by a 31 conditional use permit, or under other provisions of law. 32 5. **Finished Appearance Outward** 33 Whenever any fence will be visible from adjacent streets, and whenever a 34 fence is installed as part of required buffering landscaping and is visible from 35 adjacent properties, it shall be installed so that the more finished side (i.e., the 36 side with fewer or no visible structural framing or bracing elements) faces 37 outward from the lot on which it is installed. 38 6. **Prohibited Materials** Fences made of debris, junk, or waste materials are prohibited, unless such 39 40 materials have been recycled and reprocessed into building materials 41 marketed to the general public and resembling new building materials.

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1 21.07.090 OFF-STREET PARKING AND LOADING⁵³ 2 Α. **Purpose** 3 This section establishes off-street parking requirements as a necessary part of the 4 development and use of land, to ensure the safe and adequate flow of traffic in the 5 public street system, and to ensure that parking areas are designed to perform in a 6 safe, efficient manner. It is also the intent of this section to attenuate the adverse 7 visual, environmental, and economic impacts of parking areas. Specific purposes 8 include to: 9 1. Ensure that off-street parking, loading, and access demands will be met 10 without adversely affecting other nearby land uses and neighborhoods: 11 2. Provide for vehicle and pedestrian circulation and safety in parking areas, and 12 create a safe and more pedestrian-friendly environment; 13 Encourage the efficient use of land by avoiding excessive amounts of land 3. 14 being devoted to parking and thus unavailable for other productive uses; 15 4. Improve the visual appearance of public street corridors by encouraging 16 buildings and other attractive site features to become more prominent relative 17 to parking areas; 18 5. Provide for better pedestrian movement and encourage alternative modes of 19 transportation by reducing the expanses of parking that must be traversed 20 between destinations: 21 6. Support a balanced transportation system that is consistent with cleaner air 22 and water, greater transportation choices, and efficient infill and 23 redevelopment; and 24 7. Allow flexibility in addressing vehicle parking, loading, and access issues, 25 including providing alternatives to standard required surface parking. 26 B. **Applicability** 27 1. Generally 28 The off-street parking and loading standards of this section 21.07.090 29 shall apply to all parking lots and parking structures accessory to any 30 new building constructed and to any new use established in every 31 district. 32 b. Except for the off-street loading requirements of subsection 33 21.07.090F., all other requirements of this section shall apply to 34 Girdwood unless specifically preempted in chapter 21.09. 35 The off-street parking requirements set forth in subsection C.

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21.07.090D shall not apply in the CBD Districts. However, all other

standards of this section 21.07.090 shall apply to the CBD Districts.

d. Except when specifically exempted, the requirements of this section 21.07.090 shall apply to all temporary parking lots and parking lots that are the principal use on a site.

2. Expansions and Enlargements⁵⁴

The off-street parking and loading standards of this section shall apply when an existing structure or use is expanded or enlarged. Additional off-street parking and loading spaces shall be required to serve the enlarged or expanded area, provided that in all cases the number of off-street parking and loading spaces provided for the entire use (pre-existing plus expansion) must equal 100 percent of the minimum ratio established in this section.

3. Regulation of Parking Space Use⁵⁵

The providers of required off-street parking spaces and the Municipality of Anchorage may reasonably control the users thereof by means that may include, but are not limited to, restricting all parking to the users of the facility; parking lot attendants control gates; tow-away areas; areas for exclusive use by employees, tenants or staff; areas restricted for use by customers or visitors; and imposing reasonable time limitations on users other than tenants, employees, or staff. Direct charges may be made to users who exceed maximum time limits. The Traffic Engineer may review all methods of control and may disapprove of any restriction that adversely affects the purpose of this section. The Municipality may enforce any approved restrictions through any of the code enforcement provisions set forth in chapter 21.12, *Enforcement*.

4. Local Improvement Assessments and Parking

Any property against which local improvement assessments have been levied for the construction of public off-street parking shall be exempted from providing and maintaining one space for each 100 square feet of property so assessed.

C. Parking Lot Layout and Design Plan (10 or More Spaces)

1. Applicability

For all proposed parking lots with 10 or more spaces, the applicant shall submit a parking lot layout and design plan for review and approval by the Traffic Engineer. The plan shall contain sufficient detail to enable the Traffic Engineer to verify compliance with this section 21.07.090. Subject to approval of the Traffic Engineer, the parking layout and design plan may be combined with other plans required under this title, such as the landscaping plan required in 21.07.080, *Landscaping, Screening, and Fences*.

2. Minimum Plan Requirements

- The parking lot layout and design plan shall be prepared by a design professional.
- b. The Building Official and Traffic Engineer shall establish the minimum submittal requirements for such plans that will enable staff to adequately review and ensure compliance with the standards and requirements of this section 21.07.090. Such submittal requirements, to be included in the User's Guide, shall include but not be limited to elements such as placement and dimensions of spaces, landscaping,

pedestrian and vehicle circulation, snow storage, lighting, loading and trash collection areas, and drainage.

The Traffic Engineer shall ensure that provisions have been made for C. minimum interference with street traffic flow and safe interior vehicular and pedestrian circulation, transit, and parking.

Off-Street Parking Requirements⁵⁷ D.

Schedule A⁵⁸ 1.

Unless otherwise expressly stated in this title, off-street parking spaces shall be provided in accordance with Table 21.07-5, Off-Street Parking Schedule A.

TABLE 21.07-5: OFF-STREET PARKING SCHEDULE A ("du" = dwelling unit; "sf" = square feet; "gfa" = gross floor area)

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
RESIDENTIAL U	JSES (* Ratios for resid	ential uses are still being discussed)		
Household Living	Dwelling, mixed use	See Schedule B.		
	Dwelling, multiple- family Dwelling, single- family detached	 1.25 per efficiency unit; 1.5 per one-bedroom unit 1.5 per two-bedroom unit 800 sf or less 1.75 per two-bedroom unit over 800 sf 1.75 per three-bedroom unit 900 sf or less 2.5 per three-bedroom unit over 900 sf All multiple-family dwellings shall provide 0.25 guest spaces per unit. 2 per du up to 1,800 square feet; 3 per du over 1,800 square feet, including any unfinished area which may be converted to living area 	X	
	All other Household Living uses	2 per du		
Group Living	Correctional community residential center	1 per 2,000 sf gfa	X	
	Dormitory	1 per 1,000 sf gfa	Х	
	Habilitative Care Facility	1 per 400 sf gfa, and 1 additional space, reserved for pickup and delivery of adults, per 800 sf gfa plus requirement for principal use	Х	

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
	Residential care (7+ client capacity)	1 per four beds plus 1 per 350 sf of office area plus requirement for dwelling, if located in a dwelling	^	
	Roominghouse	1.5 per two guestrooms		
	All other Group Living uses	1 per two beds plus 1 per 100 sf of assembly area		
PUBLIC/INSTIT	UTIONAL USES			
Adult Care	Adult care, 1-6 adults	1 per 400 sf gfa, and 1 additional space, reserved for pickup and delivery of adults, per 800 sf gfa (plus requirement for principal use, if approved as accessory use)		
	Adult care, 7+ adults	1 per 400 sf gfa, and 1 additional space, reserved for pickup and delivery of adults, per 800 sf gfa	Х	
Child Care	Child care, 1-6 children	1 per 400 sf gfa, and 1 additional space, reserved for pickup and delivery of children, per 800 sf gfa (plus requirement for principal use if approved as accessory use)		
	Child care, 7+ children	1 per 400 sf gfa, and 1 additional space, reserved for pickup and delivery of children, per 800 sf gfa	Х	
Community Service	Community assembly	1 per 80 sf of principal assembly area plus 1 per 350 sf of office area	Х	
	Community center ⁵⁹	1 per 250 sf gfa	Х	
	Family self-sufficiency service	1 per 300 sf gfa		
	Homeless and transient shelter	1 per 300 sf gfa		
	Neighborhood recreation center ⁶⁰	1 per 300 sf gfa		
Cultural Facility ⁶¹	Aquarium	1 per 500 sf gfa	Х	
	Botanical gardens	.75 per acre of site area, plus 1 per 1000 sf gfa	Х	
	Library	1 per 400 sf gfa	Х	
	Museum or cultural center	1 per 400 sf gfa	Х	
	Planetarium	1 per 400 sf gfa	Х	
	Zoo	1 per 2,000 sf gross land area	Х	

		use tables in chapter 21.00.j	0 1 "	See
Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	Stacking Subsection 21.07.090.I
	All other uses	1 per 300 sf gfa	Х	
Educational Facility	Boarding school	See Schedule C.	Х	
,	College and university	1 per 300 sf of enclosed floor space	Х	
	Computer-aided learning center	1 per 300 sf of enclosed floor space	Х	
	Elementary school	1 per 50 sf of floor area in the multipurpose room	Х	
	High school or middle school	1 per six seats in the main auditorium or assembly room, based on maximum capacity	Х	
	All other Educational Facility uses	1 per 300 sf of enclosed floor space	Х	
Government Facility	Correctional institution	See Schedule C.	Х	
,	Governmental office	1 per 300 sf gfa	Х	
	Governmental service	1 per 600 sf gfa	Х	
	Police/fire station	See Schedule C.		
Health Care Facility	Health care facility or nursing home, all uses other than hospitals	1 per four beds, based upon maximum capacity. If the facility is used exclusively for the housing of the elderly, disabled, or handicapped, the Zoning Board of Examiners and Appeals may allow a portion of the area reserved for off-street parking to be landscaped if the board finds that the landscaping is suitable and is in the best interests of the residents of the neighborhood.	X	
	Health service establishment	1 per 250 sf gfa	Х	
	Hospital	1 per two beds, based on maximum capacity, plus 1 per 350 sf of office and administrative area, plus required parking for supplemental uses	х	
Park and Open Area	Cemetery	See Schedule C.		
	Community garden	1 per 5,000 sf of lot area		
	Nursery, public	See Schedule C.		

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
	Park, public	See Schedule C. Playfields (soccer, baseball, etc.) shall have minimum of 20 spaces per field.		
Trans-portation Facility	Airport	See Schedule C.	Х	
	Airstrip, private	See Schedule C.	Х	
	Bus transit center	See Schedule C.	Х	
	Heliport	2 per each helicopter based at the facility (2 spaces minimum) plus 1 per 100 sf waiting area	Х	
	Railroad freight terminal	See Schedule C.	Х	
	Railroad passenger terminal	See Schedule C.		
	Taxicab dispatching office	See Schedule C.		
Utility Facility	All uses	1 per 1,000 sf gfa		
Communica- tion Structures	All uses	None		
COMMERCIAL	USES			
Agricultural Uses	Farming, animal husbandry	See Schedule C.		
	Farming, horticultural	See Schedule C.		
Animal Sales, Service & Care	Animal control shelter	1 per 400 sf gfa		
	Animal grooming service	1 per 400 sf gfa		
	Kennel	1 per 800 sf gfa		
	Paddock or stable	1 per 5 stalls		
	Pet shop	1 per 300 sf gfa		
	Veterinary clinic	1 per 600 sf gfa		
Assembly	Civic/convention center	1 per four seats of principal room. If no fixed seating, then based on maximum capacity under provisions of International Building Code.	Х	
	Club/lodge/meeting hall	1 per 300 sf gfa	Х	
	Entertainment event, major	See Schedule C.	X	

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
Entertainment, Indoor	Amusement establishment	Indoor entertainment facility: 1 per 300 sf gfa		
	Bowling Alley	4 per bowling lane		
	Fitness and recreational sports center	1 per 225 sf gfa or 1 per 8 persons based on the maximum allowable occupancy For athletic court areas: 1 per 275 sf		
	Movie theater	1 per four seats of principal room. If no fixed seating, then based on maximum capacity under provisions of International Building Code.		
	Nightclub, licensed or unlicensed	1 per three seats. If no fixed seating, then based on maximum capacity under provisions of International Building Code.	х	
	Theater company or dinner theater	1 per four seats of principal room. If no fixed seating, then based on maximum capacity under provisions of International Building Code.		
Entertainment / Recreation, Outdoor	General outdoor recreation, commercial	1 per 5,000 sf of land area, or 1 per 3 persons capacity (maximum), whichever is greater; playfields (soccer, baseball, etc.) shall have minimum of 20 spaces per field	Х	
	Golf course	4 per green		
	Golf driving range	1 per tee		
	Motorized sports facility	1 per 2 spectator seats in a structure such as a grandstand, stadium; or 1 per 2,000 sf of site area; whichever is greater	X	
	Shooting range, outdoor	2 per target area, or 1 per 5 seats, whichever is greater		
	Skiing facility	See Schedule C.	X	
Financial Institutions	Financial institution	1 per 350 sf gfa, except 1 per 300 sf gfa of areas associated with teller services (plus vehicle stacking spaces if drive- through is provided)		Х
Food and Beverage Service	Bar or tavern	1 per 100 sf gfa	Х	
	Brew pub	1 per 200 sf gfa	Х	
	Food and beverage kiosk	1 per establishment, plus vehicle stacking spaces		Х

		See Loading See					
Use Category	Use Type	Minimum Spaces Required	Subsection 21.07.090.F	Stacking Subsection 21.07.090.I			
	Restaurant	1 per 100 sf gfa (plus vehicle stacking spaces if drive-through is provided)	Х	X			
Office	Office, business or professional	1 per 350 sf gfa	Х				
	Broadcasting and recording facility	1 per 300 sf gfa					
Retail (Personal Service)	Pharmacy/Drugstore and Video Rental Store	1 per 400 sf gfa (plus vehicle stacking spaces if drive-through is provided)		Х			
	Dry-cleaning, drop-off site/Mail Package Service/Locksmith Shop	1 per 600 sf gfa, (plus vehicle stacking spaces if drive-through is provided)		Х			
	Funeral services	1 per 150 sf gfa in main assembly areas	Х				
	All other uses	1 per 300 sf gfa	Х				
Retail (Repair and Rental)	All uses	1 per 300 sf gfa	Х				
Retail (Sales)	Auction house	1 per 300 sf gfa	Х				
	Business service establishment	1 per 300 sf gfa	Х				
	Carpet Store	1 per 500 sf gfa					
	Convenience store	1 per 300 sf gfa	Х				
	Farmers market	1 per 250 sf, with a minimum of 6					
	Furniture, Home Appliance Store	1 per 800 sf gfa					
	Meat and seafood processing, storage, and sales ⁶²	1 per 400 sf gfa	Х				
	General retail	1 per 300 sf gfa	Х				
	Grocery or food store	1 per 250 sf gfa					
	Liquor store	1 per 300 sf gfa	Х				
	Lumber yard/building materials store	1 per 300 sf gfa	Х				
	Nursery, commercial	1 per 250 sf retail sales area; 1 per 500 sf greenhouse sales area; 1 per 1,000 sf outdoor display area	Х				

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
	Pawnshop	1 per 300 sf gfa	Х	
	Plumbing and heating equipment dealer	1 per 400 sf gfa	Х	
Vehicles and Equipment	Aircraft and marine vessel sales	1 per 7,000 sf outdoor display/sales area; 1 per 400 sf indoor floor area	Х	
	Fueling station	1 per fueling pump		Х
	Heavy equipment, sales and rental	1 per 7,000 sf outdoor display/sales area; 1 per 400 sf indoor floor area	Х	
	Impound yard	1 per 500 sf gfa, plus 1 per 5,000 sf of outdoor storage area		
	Vehicle parts and supplies	1 per 400 sf gfa	Х	
	Vehicle – large and small, sales and rental	1 per 7,000 sf outdoor display/sales area; 1 per 400 sf indoor floor area	Х	
	Vehicle service and repair, major and minor	2 per car wash bay; 4 per other service bay (provided that all vehicles in custody of operator of business for purpose of service, repair or storage shall be stored on premises or on a separate off-street parking lot or building)		
	Vehicle storage yard	1 per 50 vehicles stored, based on maximum capacity ⁶³ , plus1 per 350 sf gfa of office area, plus vehicle stacking spaces for security gate		Х
Visitor Accom- modations	Camper park	1.1 spaces for each recreational vehicle space		
	Extended-stay lodgings	1 per guestroom or 1 bedroom unit; 1.25 per 2 bedroom unit; 1.5 per 3 bedroom or more unit	Х	
	Hostel	1 per 600 sf gfa		
	Hotel	.9 per guestroom, plus .3 per each 5 occupants of meeting area, plus any supplemental uses	Х	
	Inn	1 per guestroom, plus 1 per 90 sf gfa of meeting or lounge area		
	Motel	.9 per guestroom, plus .3 per each 5 occupants of meeting area, plus any supplemental uses	Х	
	Recreational and vacation camp	1 per 2 beds, or 1 per cabin, sleeping unit, or tent site, whichever is greater		

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
INDUSTRIAL U	SES [1]			
Industrial Service [1]	Data processing facility	1 per 1,000 sf gfa	Х	
	General industrial service	1 per 750 sf gfa (1-3,000 gfa); 1 per 1,000 sf gfa (3,001-5,000 gfa); 1 per 1,500 sf gfa (more than 5,000 gfa)		
	Research laboratory	1 per 300 sf gfa		
Manufacturing and Production [1]	Cottage Crafts	1 per 300 sf gfa	Х	
	Food service contractor or caterer	1 per 400 sf gfa for catering; 1 per 800 sf gfa for food processing		
	Manufacturing (heavy and light)	1 per 750 sf gfa (1-3,000 gfa); 1 per 1,000 sf gfa (3,001-5,000 gfa); 1 per 1,500 sf gfa (more than 5,000 gfa)		
	Natural resource extraction	See schedule C.		
Marine Facility [1]	Aquaculture	See Schedule C.	Х	
	Boat storage facility	1 per 75 storage units		
	Cold storage and ice processing for marine products	per 250 sf gfa of area devoted to customer service; see Manufacturing ratios above for processing and storage areas		
	Facility for combined marine and general construction	See Schedule C.		
	Marine operations (general and limited)	See Schedule C.		
	Marine wholesaling	1 per 400 sf gfa		
Warehouse and Freight Movement [1]	Bulk storage of hazardous materials	See Schedule C.	Х	
	Motor freight terminal	see Warehouse		
	Self-storage facility	1 per 75 units, plus 1 per 300 sf of office area, plus vehicle stacking spaces for security gate. Aisles suitable for temporary loading and unloading may be counted as required parking stalls in accordance with Table 21.07-4 as determined by the traffic engineer.	X	X
	Storage yard	1 per 2,000 sf of outdoor storage area		

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090.F	See Stacking Subsection 21.07.090.I
	Warehouse	1 per 1,000 sf gfa (1-10,000 sf); 1 per 1,250 sf gfa (10,000-50,000 sf); 1 per 1,500 sf gfa (more than 50,000 sf)		
	Wholesale establishment	1 per 400 sf gfa		
Waste and Salvage	All uses	See Schedule C.	Х	

Notes

2. Schedule B⁶⁴

TABLE 21.07-6: OFF-STREET PARKING SCHEDULE B – MIXED-USE DISTRICTS				
Use Type	Minimum Spaces Required			
Residential	Multi-family and mixed-use residential uses within 700 feet of a transit stop on a transit development corridor with peak hour service headways of 30 minutes or less shall be eligible for a reduction from the minimum number of required spaces in Schedule A, as follows: Minimum of 1 space per 1-bedroom unit Minimum of 1.33 spaces per 2-bedroom unit Minimum of 1.5 spaces per 3-bedroom unit			
Non-residential	Non-residential uses shall be eligible for a five percent (5%) reduction from the minimum number of required spaces in Schedule A.			

3. Schedule C⁶⁵

Uses that reference "Schedule C" have widely varying parking and loading demand characteristics, making it impossible to specify a single off-street parking or loading standard. Upon receiving a development application for a use subject to Schedule C standards, the Building Official and the Traffic Engineer shall apply the off-street parking and loading standard specified for the listed use that is deemed most similar to the proposed use or establish minimum off-street parking requirements on the basis of a parking and loading study prepared by the applicant. Such a study shall include estimates of parking demand based on recommendations of the Institute of Transportation Engineers (ITE), or other acceptable estimates as approved by

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^[1] The off-street parking requirements for industrial uses in this Schedule A shall not include space devoted to office or other non-industrial related use. Where a warehousing or industrial facility contains office or other non-industrial related use, off-street parking for such spaces shall be computed using the requirements set forth in the Schedule A.

the Traffic Engineer, and shall include other reliable data collected from uses or combinations of uses that are the same as or comparable with the proposed use. Comparability shall be determined by density, scale, bulk, area, type of activity, and location. The study shall document the source of data used to develop the recommendations.

4. Maximum Number of Spaces Permitted

a. Purpose

The purpose of this subsection is to establish an upper limit on the number of parking spaces allowed in order to promote efficient use of land, enhance urban form, provide for better pedestrian movement, encourage alternative modes of transportation, and to protect air and water quality. The maximum ratios allow a percent of parking that is greater than the minimum amount of parking needed to accommodate the majority of auto trips to a site based on typical peak parking demand. Exceptions and flexibility procedures are provided where a required limit on the number of parking spaces is problematic for a certain use.

b. Maximum Number of Spaces

For any use categorized as a Public/Institutional, Commercial or Industrial use in Table 21.05-1 or Table 21.05-2, *Tables of Allowed Uses*, the maximum number of off-street vehicle parking spaces shall be as established in Table 21.07-7 below. The table applies the maximum number of spaces allowed as a percentage of the minimum parking requirements established in Table 21.07-5, *Off-Street Parking Schedule A*. Uses in the Parks and Open Areas, Transportation Facility, and Utility Facility use categories are exempt.

TABLE 21.07-7 MAXIMUM NUMBER OF ALLOWED PARKING SPACES					
Number of Off-Street Parking Spaces Required	Maximum Allowed (% of minimum required in Table 21.07-8, <i>Off-Street Parking Schedule A</i>)				
< 40 spaces	150% [1] [2]				
40 – 160 spaces	125% [1]				
> 160 spaces	110% [1] [3]				

Notes:

- [1] Restaurant Uses: In spite of Note [2] below, restaurant, bar/tavern, and brew pub establishments that do not serve fast food and that do not include customer drive-throughs may, in any use district, have up to 200% of the minimum parking required in Table 21.07-8, *Off-Street Parking Schedule A*.
- [2] CBD and Mixed-Use Districts: In districts intended for more intense, pedestrian friendly, and mixed-use development, namely the CBD, MMU, CCMU, and RMX districts, the maximum number of spaces allowed shall be 125% of the minimum parking required in Table 21.07-8, Off-Street Parking Schedule A.

TABLE 21.07-7 MAXIMUM NUMBER OF ALLOWED PARKING SPACES

[3] Establishments with more than 160 required parking spaces that wish to provide more than 110% of their required parking, may provide more than 110% of their required parking when they provide a 1% increase in interior landscaping for every 1% increase in parking over 110%, up to a maximum of 135%. (For example, an establishment that desires to provide 115% of their required parking shall add 5% more interior landscaping than required in section 21.07.080F.6.d.)

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30 31		

c. Exceptions

- i. If application of the maximum parking standard would result in fewer than six parking spaces, the development shall be allowed six parking spaces.
- **ii.** For the purpose of calculating parking requirements, the following types of parking spaces shall not count against the maximum parking requirement, but shall count toward the minimum requirement:
 - (A) Accessible parking
 - (B) Vanpool and carpool parking
 - (C) Parking structures, underground parking, and parking within, above, or beneath the building(s) it serves.
- iii. For the purpose of calculating parking requirements, fleet vehicle parking shall not count against either the minimum or maximum requirements:
- iv. Exceptions to the maximum parking requirement may be allowed by the Traffic Engineer and the Building Official in situations that meet all of the following criteria:
 - (A) The proposed development has unique or unusual characteristics such as high sales volume per floor area or low parking turnover, which create a parking demand that exceeds the maximum ratio and which typically does not apply to comparable uses; and,
 - (B) The parking demand cannot be accommodated by on-street parking or shared parking with nearby uses; and,
 - (C) The request is the minimum necessary variation from the standards; and,
 - (D) If located in a mixed-use district, the uses in the proposed development and the site design are highly supportive of the mixed-use concept and support

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high levels of existing or planned transit and pedestrian activity.

E. Parking Alternatives⁶⁶

The Traffic Engineer and Director may approve alternatives to providing the number of off-street parking spaces required by subsection 21.07.090D., in accordance with the following standards.

1. Shared Parking⁶⁷

The Traffic Engineer and Director may approve shared parking facilities for developments or uses with different operating hours or different peak business periods if the shared parking complies with all of the following standards:

a. Location

Shared parking spaces shall be located within 600 feet of an entrance, unless approved by the Traffic Engineer.

b. Zoning Classification⁶⁸

Shared parking areas shall be located on a site with the same or a more intensive zoning classification than required for the primary uses served.

c. Shared Parking Study

Those proposing to use shared parking as a means of satisfying off-street parking requirements shall submit a shared parking analysis to staff that clearly demonstrates the feasibility of shared parking. The study shall be provided in a form established by the Traffic Engineer and shall be made available to the public. It shall address, at a minimum, the size and type of the proposed development, location of required parking, the composition of tenants, the anticipated rate of parking turnover, and the anticipated peak parking and traffic loads for all uses that will be sharing off-street parking spaces. The applicant shall also demonstrate that any parking reduction requested as part of the shared parking study will not result in the spillover of parking onto other properties.

d. Agreement for Shared Parking

The parties involved in the joint use of off-street parking facilities shall submit a written agreement in a form to be recorded for such joint use, approved by the Traffic Engineer and Administrative Official as to form and content. The agreement shall guarantee the use of the shared parking facilities in perpetuity, and shall provide for the maintenance of jointly used parking facilities. The Traffic Engineer and Director may impose such conditions of approval as may be necessary to ensure the adequacy of parking in areas affected by such an agreement. Recordation of the agreement shall take place before issuance of a building permit for any use to be served by the shared parking area. A shared parking agreement may be revoked only if all required off-street parking spaces will be provided in accordance with the requirements of subsection 21.07.090D.

2 Off-Site Parking⁶⁹ The Traffic Engine required off-site pa

The Traffic Engineer and Administrative Official may approve the location of required off-site parking spaces on a separate lot from the lot on which the principal use is located if the off-site parking complies with all of the following standards:

a. Ineligible Activities

Required parking spaces for residential uses must be located on the site of the use or within a tract owned in common by al the owners of the properties that will use the tract. Required parking spaces for persons with disabilities may not be located off-site.

b. Location

No off-site parking space may be located more than 600 feet from an entrance (measured along the shortest legal pedestrian route) unless approved by the Traffic Engineer. Off-site parking spaces shall be connected to the use by acceptable pedestrian facilities. Off-site parking spaces may not be separated from the use served by a street right-of-way with a width of more than 80 feet, unless a grade-separated pedestrian walkway, a traffic signal, a shuttle bus, or other traffic control is provided or other traffic control or remote parking shuttle bus service is provided.

c. Zoning Classification

Off-site parking areas shall have the same or a more intensive zoning classification applicable to the primary use served.

d. Agreement for Off-Site Parking

In the event that an off-site parking area is not under the same ownership as the principal use served, a written agreement between the record owners shall be required. The agreement shall guarantee the use of the off-site parking area in perpetuity. An attested copy of the agreement between the owners of record shall be submitted to the Municipality for recordation in a form established by the Municipal Attorney. Recordation of the agreement shall take place before issuance of a building permit or certificate of occupancy for any use to be served by the off-site parking area. An off-site parking agreement may be revoked only if all required off-street parking spaces will be provided in accordance with the requirements of this chapter. No use shall be continued if the parking is removed unless substitute parking facilities are provided, and the Traffic Engineer and Administrative Official shall be notified at least 60 days prior to the termination of a lease for off-site parking.

3. On-street Parking

In mixed-use districts, on-street parking spaces in the right-of-way along the property line, between the two side lot lines of the site, may be counted to satisfy the minimum off-street parking requirements. In all other districts, on-street parking meeting the above criteria shall be counted towards off-street parking requirements if approved by the Traffic Engineer.

1 2 3 4	4.	District Parking Minimum required off-street parking spaces may be waived for properties within the boundaries of a public parking or local improvement district that provides district-wide parking facilities.			
5 6 7 8 9	5.	Stacked, ta attendant is the Municip	andem, and Valet Parking ndem, or valet parking for nonresidential uses is allowed if an present to move vehicles. In addition, a guarantee acceptable to ality shall be filed with the Municipality ensuring that a valet ndant shall always be on duty when the parking lot is in operation.		
10 11 12 13 14	6.	Who or r	uctures kimum Parking Waiver ere 75 percent or more of the parking provided for a use is in one more parking structures, there shall be no maximum cap on the liber of parking spaces.		
15 16 17 18		In stru	dit for Nearby Public Parking Structures the mixed-use districts, spaces available in public parking ctures located within 600 feet of the subject use may be counted ard the total amount of required off-street parking.		
19 20 21 22 23 24 25		the A 1 stru use feet	or Area Bonus for Automated and Underground Parking in CBD and Mixed-use Districts loor area bonus shall be granted for underground parking ctures and automated parking structures in the CBD and mixed-districts. The bonus shall be granted at a ratio of three square of additional bonus area for each square foot of structured king that is underground or within an automated parking structure.		
26 27 28 29	7.	In t faci	ne mixed-use Districts the mixed-use districts, the total requirement for off-street parking ities shall be the sum of the requirements for the various uses uputed separately, subject to the modifications set forth below.		
30 31 32		i.	All uses within the mixed-use districts shall be eligible for a five percent parking reduction to reflect the reduced automobile use associated with mixed-use developments.		
33 34 35 36		ii.	A 10 percent parking reduction for multifamily residential dwellings may be allowed if the proposed use is located within 600 feet of a transit stop with midday service headways of 30 minutes or less in each direction.		
37 38 39 40		iii.	For non-residential uses, the minimum parking requirement may be reduced 10 percent if the use incorporates a transit stop that meets minimum design standards established by the Municipality.		
41 42 43 44		iv.	The total number of parking spaces required for a use or uses in a mixed-use District may be further reduced by the Traffic Engineer and Director if the applicant prepares a parking evaluation that demonstrates a reduction is appropriate		

based on the expected parking needs of the development, availability of mass transit, and similar factors. The parking evaluation shall be prepared in a form and manner prescribed by the Traffic Engineer.

8. Other Eligible Alternatives

The Traffic Engineer may approve any other alternative to providing off-street parking spaces on the site of the subject development if the applicant demonstrates to the satisfaction of the Traffic Engineer that the proposed plan will protect surrounding neighborhoods, maintain traffic circulation patterns, and promote quality urban design to at least the same extent as would strict compliance with otherwise applicable off-street parking standards.

F. Off-Street Loading Requirements⁷⁰

No building or structure used for any multi-family, commercial, industrial, or public/institutional use shall be erected, nor shall any such existing building or structure be altered so as to increase its gross floor area by 25 percent or more, without prior provision for off-street loading space in conformance with the following minimum requirements:

1. Types of Loading Berths

Required off-street loading space shall be provided in berths that conform to the following minimum specifications:

- **a.** Type A berths shall be at least 60 feet long by ten feet wide by 14 feet six inches high, inside dimensions.
- **b.** Type B berths shall be at least 30 feet long by ten feet wide by 14 feet six inches high, inside dimensions.
- c. Type C berths shall be located in the rear of a lot and utilize part of an adjacent alley. The building setback shall be a minimum of five feet from the property line along the alley for the entire width of the lot.

2. Number of Spaces

The following numbers and types of berths shall be provided for the specified uses in Table 21.07-8, *Off-Street Loading Berths*; provided, however, that, in any mixed-use district, one type C berth may be substituted for one type B berth. The uses specified in this subsection shall include all structures designed, intended, or arranged for such use.

TABLE 21.07-8: OFF-STREET LOADING BERTHS					
Use Aggregate Gross Floor Area (square feet) Berths Required					
Residential Uses					
Multiple-family dwellings	25,000150,000	1	В		
	150,000400,000	2	В		

TABLE 21.07-8: OFF-STREET LOADING BERTHS					
Use	Aggregate Gross Floor Area (square feet)	Berths Required	Type		
	Each additional 250,000 or fraction thereof	1 additional	В		
Public/Institutional Uses					
Cultural facilities ⁷¹	24,00050,000	1	В		
	50,000100,000	2	В		
	Over 100,000, each additional 50,000 or major fraction thereof	1 additional	В		
Educational facilities	Over 14,000	1	В		
Health care facilities	10,000100,000	1	В		
	Over 100,000	2	В		
Railroad freight terminals and other transportation	12,00036,000	1	Α		
facilities	36,00060,000	2	Α		
	60,000100,000	3	Α		
	Each additional 50,000 or fraction thereof	1 additional	Α		
Commercial Uses					
Assembly uses	25,000150,000	1	В		
	150,000400,000	2	В		
	Each additional 250,000 or fraction thereof	1 additional	В		
All commercial establishments not	7,00024,000	1	В		
otherwise specified	24,00050,000	2	В		
	50,000100,000	3	В		
	Over 100,000, each additional 50,000 or major fraction thereof	1 additional	В		
Visitor accommodations and office uses	25,00040,000	1	В		
33 511135 4550	40,000100,000	2	В		

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TABLE 21.07-8: OFF-STREET LOADING BERTHS					
Use	Aggregate Gross Floor Area (square feet)	Туре			
	Each additional 100,000 or major fraction thereof	1 additional	В		
Industrial Uses					
All industrial uses	12,00036,000	1	Α		
	36,00060,000	2	Α		
	60,000100,000	3	Α		
	Each additional 50,000 or fraction thereof	1 additional	А		

3. **Uses Not Specifically Mentioned**

In the case of a use not specifically mentioned in this section, the requirements for off-street loading facilities shall be the same as the use mentioned in this section which, in the opinion of the Traffic Engineer, is most similar to the use not specifically mentioned.

4. **Concurrent Different Uses**

When any proposed structure will be used concurrently for different purposes, final determination of loading requirements shall be made by the Traffic Engineer, but in no event shall the loading requirements be less than the total requirements for each use based upon its aggregate gross floor area, unless approved by the Traffic Engineer.

5. **Location of Off-Street Loading Facilities**

Off-street loading facilities required under this title shall be in all cases on the same lot or parcel of land as the structure they are intended to serve. The required off-street loading space shall not be part of the area used to satisfy the off-street parking requirements unless approved by the Traffic Engineer. To the maximum extent feasible, loading areas shall be located to the rear of a site and/or away from adjacent residential areas. However, noise and glare impacts shall be considered when loading facilities are proposed to be placed adjacent to residential areas, or in an area with a residential zoning classification. Mitigation techniques, including appropriate siting and site design measures, may be required by the Traffic Engineer.

Manner of Using Loading Areas 6.

No space for loading or unloading of vehicles shall be so located that a vehicle using such loading space projects into any public street. Loading space shall be provided with access to an alley, or, if no alley adjoins the lot, with access to a street. Any required front, side, or rear yard may be used for loading unless otherwise prohibited by this title. Design and location of entrances and exits for required off-street loading areas shall be subject to the approval of the Traffic Engineer. Service and off-street loading areas shall

comply with the screening requirements for such areas set forth in subsection 21.07.080H.4.

7. Signs

The owners of the property shall provide, locate, and maintain loading signs as specified by the Traffic Engineer. Such signs shall not be counted against allowed advertising sign area.

G. Computation of Parking and Loading Requirements

1. Fractions

For residential uses, when measurements of the number of required spaces result in a fractional number, any fraction shall be rounded up to the next higher whole number. For all other uses, when measurements of the number of required spaces result in a fractional number, any fraction shall be rounded down to the next lower whole number.

2. Multiple Uses⁷²

Developments containing more than one use shall provide parking and loading in an amount equal to the total of the requirements for all uses, except as allowed by this section. However, loading facilities may be shared between uses when approved by the Traffic Engineer.

3. Area Measurements

Unless otherwise specified, all square footage-based parking and loading standards shall be computed on the basis of gross floor area of the use in question. A parking structure within a building and any enclosed rooftop mechanical equipment shall not be counted in such measurement.

4. Computation of Off-Street Parking

Required off-street loading space shall not be included as off-street parking space in computation of required off-street parking space, unless approved by the Traffic Engineer pursuant to subsection F.5. above.

5. Parking for Unlisted Uses

Parking requirements for uses not specifically listed in subsection 21.07.090.C. shall be determined by the Traffic Engineer based on the requirements for the closest comparable use, as well as on the particular parking demand and trip generation characteristics of the proposed use. The Traffic Engineer may alternately require the submittal of a parking demand study that justifies estimates of parking demand based on the recommendations of the Institute of Transportation Engineers, and includes relevant data collected from uses or combinations of uses that are the same or comparable to the proposed use in terms of density, scale, bulk, area, type of activity, and location.

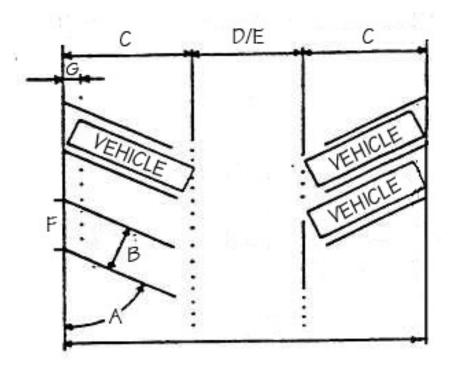
6. Dimensions of Parking Spaces⁷³

The parking configuration stated in the following table shall apply to all required off-street parking, except as stated below.

TABLE 21.07-9: PARKING ANGLE DIMENSIONS						
Α	В	С	D	Е	F	G
Parking Angle	Stall Width	Stall to Curb	Aisle Width 1-way	Aisle Width 2-way	Curb Length	Overhang
0°	9.0	9.0	12.0	24	23.0	0
	9.5	9.5	12.0	24	23.0	
	10.0	10.0	12.0	24	23.0	
20°	9.0	15.0	12.0	24	26.3	0.7
	9.5	15.5	12.0	24	27.8	
	10.0	15.9	12.0	24	29.2	
30°	9.0	17.3	12.0	24	18.0	1.0
	9.5	17.8	12.0	24	19.0	
	10.0	18.2	12.0	24	20.0	
40°	9.0	19.1	12.0	24	14.0	1.3
	9.5	19.5	12.0	24	14.8	
	10.0	19.9	12.0	24	15.6	
45°	9.0	19.8	12.0	24	12.7	1.4
	9.5	20.1	12.0	24	13.4	
	10.0	20.5	12.0	24	14.1	
50°	9.0	20.4	12.0	24	11.7	1.5
	9.5	20.7	12.0	24	12.4	
	10.0	21.0	12.0	24	13.1	
60°	9.0	21.0	18.0	24	10.4	1.7
	9.5	21.2	18.0	24	11.0	
	10.0	21.5	18.0	24	11.5	
70°	9.0	21.0	19.0	24	9.6	1.9
	9.5	21.2	18.5	24	10.1	
	10.0	21.2	18.0	24	10.6	
80°	9.0	20.3	22.0	24	9.1	2.0
	9.5	20.4	21.0	24	9.6	
	10.0	20.5	22.0	24	10.2	
90°	9.0	20.0	23.0	24	9.0	2.0
	9.5	20.0	22.0	24	9.5	
	10.0	20.0	22.0	24	10.0	
NOTE: All dimensions are to the nearest tenth of a foot.						

7.

Calculation of Parking Space DimensionsThe spatial relationships described in Table 21.07-9 shall be calculated in the manner depicted in the following diagram⁷⁴:



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8. Exception for Employee Parking Spaces

Parking spaces that are signed for employees only may be a minimum of 8.5 feet wide and 20 feet long.

9. Recreational Vehicle Spaces

Parking spaces for recreational vehicles, if provided, shall be a minimum of 10 feet by 40 feet.

H. Parking Lot Design Standards

Parking lots and spaces provided in accordance with the requirements of this section shall meet the following standards:

1. Location of Parking Lots

Parking lots shall be located on the proposed development site in accordance with the following standards for each use type specified, except when alternate configuration is approved by the Traffic Engineer and the Building Official.

a. Commercial Developments in the AC, O, IC, I-1, and I-2 Districts

i. Relationship to Buildings

In order to reduce the scale of the paved surfaces, to create a unified streetscape, and to shorten the walking distance between the parked vehicle and the building, off-street parking for all commercial developments shall be located according to one of the following options.

1 2 3 4 5 6		(A)	No more than 70 percent of the off-street surface parking spaces provided for all uses contained in the development's primary building(s) shall be located in the front parking area (i.e., the remaining spaces must be located to the rear or side of the primary building), or
7 8 9 10 11 12 13 14 15 16 17 18 19		(B)	More than 70 percent of the off-street parking spaces provided for all uses contained in the development's primary building(s) may be located in the front parking area, provided the size of the parking lot perimeter landscaping required by section 21.07.080F.6. is increased by 50 percent. (For example, if the required parking lot perimeter landscaping is 10 feet and 75% of the parking is between the front façade and the street, then the landscaping area would be increased to 15 feet and additional landscaping required.) For purposes of this section, the "primary building" shall be defined as the building with the most business activity.[ADD ILLUSTRATION]
21 22 23	ii.	No par	in Buffers king shall be permitted in any required perimeter ape buffer.
24 25 26 27 28	iii.	To the away fr	mship to Residential Areas maximum extent feasible, parking lots shall be located om any adjoining residential uses while still remaining pliance with the standards and requirements of this
29 b. 30 31 32 33 34 35	Comm i.	Relation No mor adjacer perimet must be	evelopment in the CBD and Mixed-Use Districts inship to Street Frontage re than 70 percent of a site's frontage on the primary in public street shall be occupied by a parking lot, there parking lot buffer, or driveways. At least 30 percent re occupied by a wall of the primary building. [ADD TRATION]
36 c . 37 38 39 40 41	Multi-Fam i.	Relation No mor adjacer perimet	relopment in the R-3, R-4, and O Districts Inship to Street Frontage The than 50 percent of a site's frontage on the primary Int public street shall be occupied by a parking lot, Item parking lot buffer, parking structure, garages, or Is. [ADD ILLUSTRATION]
42 43 44	ii.	No par	in Buffers king shall be permitted in any required perimeter upe buffer.

1 d. Multi-Family Development in the CBD and Mixed-Use Districts 2 3 4 Relationship to Street Frontage No more than 70 percent of a site's frontage on the primary adjacent public street shall be occupied by a parking lot. 5 perimeter parking lot buffer, or driveways. At least 30 percent 6 must be occupied by a wall of the primary building(s). 7 ii. Parking Underneath Buildings 8 Parking may be allowed on the ground level underneath a 9 building provided the parking area is fully screened by a wall 10 or façade or other architectural treatment consistent with the 11 rest of the building in terms of style, detail, and materials. 12 Parking Structures⁷⁵ iii. 13 The ground floor of all parking structures must be screened 14 by usable ground-floor commercial, institutional, or residential 15 space of a minimum depth of 25 feet from any property line 16 that abuts a public street. Location of Parking Spaces⁷⁶ 17 2. 18 General 19 Except as provided in this section, all required parking spaces shall 20 be on the same lot as the main building served, or on an abutting lot 21 provided that the zoning district in which the lot is located allows for 22 off-street parking as a permitted principal use, site plan review use, or 23 conditional use. Such abutting lot shall be under the same ownership 24 as that of the building to be served, and there shall be a parking 25 agreement, approved by the Municipality and recorded, which 26 provides for parking requirements in perpetuity. 27 Mixed Use b. 28 Any off-street or structured parking in the mixed-use districts may be 29 on the same lot as the building served, abutting or contiguous lots, or 30 any lot within 600 feet. 31 Recreational Vehicle Spaces C. 32 All lots with 100 or more spaces associated with a retail commercial 33 use shall provide one designated parking space for recreational 34 vehicles per 100 regular spaces. The recreational vehicle spaces 35 shall be depicted on the parking lot layout plan. 36 d. Carpool and Vanpool Spaces 37 All non-residential lots with 100 or more spaces or that serve uses 38 with 50 or more employees on a single shift shall designate at least 39 two percent of the long-term employee or student parking spaces for 40 carpool/vanpool parking. These designated spaces shall be located 41 closer to the building entrances than other employee or student 42 parking, with the exception of disabled-accessible and short-term 43 visitor parking. These spaces shall be clearly marked "Reserved -44 Carpool/Vanpool Only" and include hours of use, per the Manual of 45 Uniform Traffic Control Devices.

3. Pedestrian Access and Circulation

a. Purpose

These standards are intended to provide safe, efficient, and convenient pedestrian access and circulation patterns within parking lots. By creating a safe, continuous network of pedestrian walkways within and between parking lots and developments and adjoining streets and developments, pedestrians will feel more inclined to walk (rather than drive) between stores and other destinations. A pedestrian network that offers clear circulation paths from the parking areas to building entries also creates a safer, more inviting pedestrian environment.

b. Pedestrian Circulation Plan Required

Applicants shall submit a pedestrian circulation plan for all parking areas that demonstrates compliance with the following standards.

c. Pedestrian Connections

In addition to any pedestrian connections required under this chapter, clearly defined on-site pedestrian walkways shall:

- i. Connect each primary entrance of any multi-family or nonresidential building with all parking areas or parking structures that serve such primary building(s), and with any required drop-off areas.
- ii. Within all parking lots containing 40 or more spaces, be provided between a public right-of-way and building entrances when buildings are not located directly adjacent to the sidewalk.

d. Demarcation of Pedestrian Connections

Where an on-site pedestrian walkway system abuts a parking lot or internal street or driveway, the walkway shall be clearly marked and physically separated from the parking lot or drive through the use of a (1) an upright curb of six inches or more in height, bollards, or other physical buffer; and (2) a change in paving materials distinguished by its color, texture, edge, or striping. The vehicle overhang shall not encroach into a curbed walkway. Where an on-site pedestrian walkway crosses a parking lot or internal street or driveway, the crosswalk shall be clearly marked and delineated through a change in paving materials distinguished by its color, texture, edge, or striping, and shall meet any requirements of the American with Disabilities Act. Additionally, pedestrian use areas shall be delineated with visual elements such as light poles, bollards, planters, and architectural elements to highlight their location, particularly after a snowfall.

e. Pedestrian Drop-Off Areas

For all parking lots with 40 or more spaces, a defined pedestrian drop-off area shall be provided near the primary building entry. The drop-off areas shall meet the standards set forth in the following section.

4. Vehicular Access and Circulation⁷⁷

Parking areas should be designed for a safe and orderly flow of traffic throughout the site. Plans shall be reviewed and approved by the Traffic Engineer. Applicants shall submit a vehicular circulation plan for all parking areas that demonstrates compliance with the following standards:

a. Key Elements

The vehicular circulation plan shall address the following elements as they relate to parking lots, including but not limited to: fire lanes, emergency access, drive-throughs, drop-offs, and loading areas.

b. Circulation Patterns

Circulation patterns within parking areas shall be well defined with curbs, landscaping, landscaped islands, and other similar features. In order to define circulation and provide better site distance, islands at the end of each aisle are encouraged. Parking spaces along major circulation drives are prohibited. Where loading facilities are required, truck circulation shall be considered, and truck turning radii shall be shown on the vehicular circulation plan.

c. Dead-End Parking Aisles

To the maximum extent feasible, dead-end parking aisles shall be avoided.

d. Relationship to Adjacent Properties and Parking Lots

The plan shall show existing parking and circulation patterns on adjacent properties and potential connections.

e. Parking Area Entries/Driveways

Entries and driveways providing access to parking areas shall conform to the Municipality of Anchorage Driveway Design Standards currently adopted by the Traffic Department. A copy of those standards can be obtained from the Traffic Department. Access to roads owned by the State of Alaska requires Department of Transportation and Public Facilities approval and a current valid driveway permit. The Municipality cannot issue driveway permits for State-owned roads.

f. Passenger Drop-Off Areas

All institutional, entertainment, and commercial uses such as schools/daycare, stadiums, and theaters that have high-volume peak traffic volumes shall provide an area for drop-offs and pick-ups that meets the following requirements:

i. Plan

The vehicle access and circulation plan shall show the location and design of the proposed passenger drop-off area. The plan shall also include information regarding projected usage, hours of operation, peak loading/unloading time, plans for directing traffic, safety measures, and other information deemed necessary by the Traffic Engineer to designing a safe and well-functioning drop-off area.

1 2 3 4 5 6 7 8		Drop-off and pick-up areas shall be required for schools (public or private). Drop-off and pick-up areas may be adjacent to a primary driveway access or aisle, but shall be located far enough off the roadway so that they do not cause traffic to stop. Additionally, access to drop-off areas shall not be impeded by location of parking lot access drives. Length and design of the drop-off and pick-up areas shall be approved by the Traffic Engineer.
10 11 12 13 14	g.	Parking and Maneuvering All parking spaces and vehicle maneuvering areas required by this section, except those that serve single-family and duplex residences, shall be located entirely on private property unless specifically provided otherwise by this section.
15 16 17	h.	Alleys The usable portion of an alley may be credited as aisle space subject to safety approval by the Traffic Engineer.
18 19 20 21	i.	Parking Lot Connections Required parking areas serving a site, whether located on that same lot or on an adjacent lot, may be connected by means of a common access driveway within or between the interior of such lots.
22 23 24 25	j.	 Ingress and Egress Points Ingress and egress to parking facilities shall be designed to maintain adequate sight distance and safety and as prescribed in municipal driveway standards.
26 27		ii. Adequate ingress to and egress from each parking space shall be provided without backing more than 25 feet.
28 29 30 31	k.	Parking Space Obstructions No wall, post, guardrail, or other obstruction that would restrict vehicle door opening shall be permitted within five feet of the centerline of a parking space.
5. 33 34 35	Snow a.	Storage and Handling Snow Storage in All Zoning Districts i. No snow shall be stored in required landscaping areas or on pedestrian walkways or sidewalks.
36 37		ii. No snow pile shall be taller than fifteen (15) feet, except as allowed by 21.05.060E.4., Snow Disposal Site.
38 39 40		iii. Snow shall not be stored on any site (except for a <i>Snow Disposal Site</i> pursuant to subsection 21.05.060E.4.) for more than 21 days.

1 2		b.	Snow S Units	Storage	in Multi-Family Developments of Five (5) or More
2 3 4 5				oments	the general requirements of a. above, multi-family of five (5) or more units shall meet the following
6 7 8 9 10 11			i.	require minimu unheate for sno storage	tion to the area set aside to meet the off-street parking ments of this chapter, a portion of the site equal to a m of 20 percent of the area devoted to uncovered and ed surface parking and driveways shall be set aside w storage. No parking credit shall be given for snow a areas. The snow storage area shall be clearly ed on the parking lot plan.
13 14 15			ii.	percent	esignated snow storage area may overlap with fifty (50%) of the private open space required in section (30C, provided that:
16 17 18				(A)	No trees or shrubs exist in that portion of private open space which overlaps with the snow storage area; and
19 20				(B)	All areas of the private open space used for snow storage are within fifteen (15) feet of a paved area.
21 22 23	6.	Refuse a.	All refu	use and	lection Areas trash collection areas shall be delineated on the ut and design plan.
24 25		b.			rash collection areas shall be screened in accordance H.3., Refuse Collection.
26 27 28		C.	used to	meet th	sh collection areas shall not be located within any area ne minimum parking specifications of this section or on lestrian use areas such as sidewalks or walkways.
29 30 31		d.	manne	r that ob	ash collection receptacles shall not be located in a estructs or interferes with any designated vehicular or lation routes within a parking lot.
32 33 34 35	7.	The ma	t, excep	grade fo t that fo	r any parking space or interior drive lanes shall be five accessible spaces the maximum grade shall be two ed by the Americans with Disabilities Act.
36 37 38 39 40 41	8.	Paving a.	Materia Except Drivews imperm standar	as provi ays, all p neable m rds pre	ided in b. below and in section 21.07.100D.2.e, <i>Paved</i> parking lots shall be paved. The paving shall be with naterials such as a concrete or asphalt compound to scribed by the Traffic Engineer, except that a face may be used when approved by the Traffic

Engineer. Single- and two-family development in the R-5, R-6, R-9, R-10, and TA districts are exempt from this requirement.

3 4

b. <u>Temporary Parking Lots</u>

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Temporary parking lots shall not be paved, unless required by the Municipal Engineer.

6 7

9. Bicycle Racks

8 9 10 All parking lots with more than 40 spaces shall provide at least one bicycle rack with a minimum of four parking slots. Such racks shall be conveniently located near the primary entry of the primary building on the site, but shall not obstruct pedestrian use areas. ⁷⁹

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I. Vehicle Stacking Spaces⁸⁰

12 13 The vehicle stacking standards of this section shall apply unless otherwise expressly approved by the Traffic Engineer:

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1. General

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Uses of land and structures requiring a drive-through shall provide sufficient queuing space within the site to avoid vehicles waiting within the public right-of-way. Such uses shall demonstrate to the Traffic Engineer that sufficient inline waiting spaces are provided as part of the parking plan to avoid encroachment into the public rights-of-way.

20 21

2. Minimum Number of Spaces

Off-street stacking spaces shall be provided as follows:

TABLE 21.07-10: VEHICLE STACKING AREAS						
Activity Type	Minimum Stacking Spaces	Measured From				
Bank teller lane	4	Teller or window				
Automated teller machine drive-through	3	Teller machine				
Restaurant drive-through	6	Order box				
Restaurant drive-through	4	Order box to pick-up window				
Car wash stall, automatic	6	Entrance				
Car wash stall, self-service	3	Entrance				
Food and Beverage Kiosks	4	Pick-up Window				
Gasoline pump island	2	Pump island				
Security gate entrance for self storage or vehicle storage facility	[1]	Security gate				
Other	Determine	ed by Traffic Engineer.				
Note [1]: The required on-site queue lane shall measure no less than 50 feet in length and 24 feet						

Note [1]: The required on-site queue lane shall measure no less than 50 feet in length and 24 feet in width. The width of the self-storage facility gate is excluded from this requirement.

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3. Design and Layout

Required stacking spaces are subject to the following design and layout standards.

a. Size

Stacking spaces shall be a minimum of eight feet by 20 feet in size, except as noted above in Table 21.07-10, *Vehicle Stacking Areas*, for self-storage and vehicle storage facilities.

b. Location

Stacking spaces may not impede on- or off-site traffic movements or movements into or out of off-street parking spaces.

c. Design

Stacking spaces shall be separated from other internal driveways by raised medians if deemed necessary by the Traffic Engineer for traffic movement and safety.

J. Accessible Parking Requirements⁸¹

A portion of the total number of required off-street parking spaces in each off-street parking area shall be specifically designated, located, and reserved for the use by persons with physical disabilities.

1. Number of Spaces Required

Accessible parking requirements for commercial, industrial, public, and institutional uses, and multi-family developments requiring more than 25 spaces, are as follows:

TABLE 21.07-11: ACCESSIBLE PARKING REQUIREMENTS							
Total Vehicle Spaces in Parking Lot	Minimum Car Accessible Spaces	Minimum Van Accessible Spaces	Total Accessible Parking Spaces, Required Minimum				
125	0	1	1				
2650	1	1	2				
5175	2	1	3				
76100	3	1	4				
101150	4	1	5				
151200	5	1	6				
200300	6	1	7				
301400	7	1	8				
401500	8	1	9				
501549	9	1	10				
550599	10	1	11				
600649	11	1	12				
650699	12	1	13				
700749	13	1	14				
750799	14	1	15				
800849	14	2	16				
850899	15	2	17				
900949	16	2	18				

TABLE 21.0	7-11: ACCESSIBL	E PARKING REQU	IREMENTS
Total Vehicle Spaces in Parking Lot	Minimum Car Accessible Spaces	Minimum Van Accessible Spaces	Total Accessible Parking Spaces, Required Minimum
950999	17	2	19
1,0001,099	18	2	20
1,1001,199	19	2	21
1,2001,299	20	2	22
1,3001,399	21	2	23
1,4001,499	21	3	24
1,5001,599	22	3	25
1,6001,699	23	3	26
1,7001,799	24	3	27
1,8001,899	25	3	28
1,9001,999	26	3	29
2,0002,099	27	3	30
2,1002,199	28	3	31
2,2002,299	28	4	32
2,3002,399	29	4	33
2,4002,499	30	4	34
2,5002,599	31	4	35
2,600+	Total accessible	1 per each 8	20 plus 1 for
	spaces minus	accessible	each 100 over
	total van spaces	spaces	1,000 total
			vehicle spaces

2. **Dimensions**

Accessible vehicle spaces shall be at least eight feet wide with an access aisle at least five feet wide abutting the space. One in every eight accessible vehicle spaces shall have an abutting aisle eight feet in width for vans. Accessible vehicle space access aisles shall be part of an accessible route to the building or facility entrance as specified in subsection 3. below, Accessible Routes. Two accessible vehicle spaces may share a common access aisle. Parked vehicle overhangs shall not reduce the clear width of an accessible route. Accessible vehicle spaces and access aisles shall be level with surface slopes not exceeding two percent in all directions.

3. Accessible Routes⁸²

Location

At least one accessible route to the building or facility entrance shall be provided from accessible parking and accessible passenger loading zones.

b. Width

The minimum clear width of an accessible route shall be 36 inches.

Surface Textures C.

Ground surfaces along accessible routes shall be stable, firm, and slip-resistant.

1 d. Changes in Levels 2 Changes in level up to 1/4 inch may be vertical and without edge 3 treatment. Changes in level between 1/4 inch and 1/2 inch shall be 4 beveled with a slope no greater than one to two. Changes in level 5 greater than 1/2 inch shall be accomplished by means of a ramp. 6 Gratings e 7 If gratings are located in walking surfaces on an accessible route, 8 then they shall have spaces no greater than 1/2 inch wide in one 9 direction. If gratings have elongated openings, then they shall be 10 placed so that the long dimension is perpendicular to the dominant 11 direction of travel. 12 f. Ramps 13 ADA ramps cannot protrude into the ADA access aisle. Ramp details 14 shall be included on the plans. 15 4. Location 16 Accessible vehicle spaces serving a particular building shall be located on the 17 shortest accessible route of travel from adjacent parking to an accessible 18 entrance. The accessible route of travel shall not pass behind parking 19 spaces. In parking facilities that do not serve a particular building, accessible 20 vehicle spaces shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. In buildings with 21 22 multiple accessible entrances with adjacent parking, accessible vehicle 23 spaces shall be dispersed and located closest to the accessible entrances. 24 5. Signs 25 Accessible vehicle spaces shall be designated as reserved by a sign showing 26 the symbol of accessibility. Van-accessible spaces shall have an additional 27 sign reading "Van-Accessible" mounted below the symbol of accessibility. 28 a. Eight-foot van accessible aisles require a no-parking sign. 29 Signs shall be located so that they do not obstruct the ramps or other b. 30 pedestrian access. 31 A handicapped sign detail shall be included in the plan submittal per C. 32 Municipality sign specifications. 33 6. Implementation of ADA 34 Regulations may be promulgated under section 21.03.040. Amendments to 35 Text of Title 21, to implement the requirements of Americans with Disabilities 36 Act of 1991 as it may be amended or interpreted by federal regulation. 37 7. Standards for Parking as Principal Use⁸³ 38 Where a parking structure or lot is a permitted principal or conditional use and 39 is not providing required parking for another principal use, accessible parking 40 spaces in accordance with this section shall be provided.

Modification of Parking Requirements⁸⁴ 1 K. 2 The number of required parking spaces shall be that specified in this title unless 3 modified pursuant to section 21.03.180, Minor Modifications, or section 21.03.190, 4 Variances. 5 21.07.100 RESIDENTIAL BUILDING STANDARDS⁸⁵ 6 Α. **Purpose** 7 The standards of this section 21.07.100 are intended to promote high-quality 8 residential development and construction; protect property values; encourage visual 9 variety and architectural compatibility; and promote an integrated character for 10 Anchorage's neighborhoods. Specifically, the standards: 11 1. Promote new residential developments that are distinctive, have character, 12 and relate and connect to established neighborhoods; 13 2. Provide variety and visual interest in the exterior design of residential 14 buildings; 15 3. Provide for a variety of lot sizes and housing types for a range of households 16 and age groups; 17 4. Enhance the residential streetscape and diminish the prominence of garages 18 and parking areas: 19 5. Enhance public safety by preventing garages from obscuring main entrances 20 or blocking views of the street from inside residences; 21 6. Locate active living spaces, entrances, and windows to improve the physical 22 and visual connection from residences to the street, and foster opportunities 23 for casual surveillance of the street and outwardly expressed proprietorship of 24 the neighborhood; and 25 7. Improve the compatibility of attached and multi-family residential development 26 with the residential character of surrounding neighborhoods. 27 В. **Applicability** 28 This section applies to all residential development except for residential development 29 in the R-5, R-6, R-7, R-9, and R-10 districts. This section does not apply in Girdwood. C. 30 **Alternative Equivalent Compliance** 31 The alternative equivalent compliance procedure set forth in subsection 21.07.010.B. 32 may be used to propose alternative means of complying with the intent of this section. 33 D. Standards for Single-Family and Two-Family Residential Dwellings 34 1. **Purpose** 35 This subsection 21.07.100.D. is intended to promote building design that contributes to a sense of neighborhood and to the overall streetscape by 36 37 carefully relating buildings, yards, and garages in relation to public streets and

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adjacent properties. The standards support visual variety, avoid monotony in home designs and layouts, and protect property values of both the subject property and surrounding development.

2. Design Standards

a. Mix of Housing Models⁸⁶

Any development of 5 or more units shall have a mix of housing models according to the following table:

Table 21.07-12 MIX OF HOUSING MODELS						
Number of units	Number of different models required					
5-10	2					
11-30	3					
31 or more	4					

Each housing model shall have at least two of the following variations:

- i. Noticeably different floor plans;
- ii. Noticeably different placement of the building footprint on the lot:
- iii. Noticeably different garage placement; or
- iv. Noticeably different roof lines.

The development shall be arranged to avoid placing identical housing types on adjacent lots.

b. Orientation of Dwellings to the Street

Each residence shall have at least one primary pedestrian doorway for access to the dwelling located on the elevation of the dwelling facing the front lot line of the property, on or within 8 feet of the most forward plane of the house, and clearly visible from the street or public area adjacent to the front lot line. On corner lots, such pedestrian doorway may be located facing any adjacent street. Unless prohibited by terrain or other site constraints, the orientation of new lots shall repeat the predominant relationship of buildings to buildings and buildings to street along the same block face or the facing block face.

c. Garages⁸⁷

i. Garage doors facing the street shall comprise no more than 65 percent of the total length of a dwelling's façade and no more than 30 percent of the overall square footage of the dwelling's front façade that faces the street. Ranch-style

1 2				nes are ation.	exempted from the overall square footage
3 4 5 6 7		ii.	com sha faça	nprise mall be readed	its with garage doors that face the street and ore than 50 percent of the width of the façade cessed at least four feet behind the remaining shall feature at least one design element from List esign element from List B:
8 9			(A)	List A: (1)	Balcony over the garage
10 11				(2)	Eyebrow mansard over the entire length of the garage door extending a minimum of two (2) feet
12 13				(3)	Entry is pronounced using a porch, columns, or other similar features
14 15			(B)	List B: (1)	Windows in the garage door
16 17				(2)	At least two different materials used on the front façade
18				(3)	Special paving patterns in the driveway
19 20 21 22 23 24 25		iii.	feet the gara	when the lot behage atta garage i	m front building setback may be reduced by five nere is a detached garage located in the rear of ind the principal dwelling structure, or a rear ched to the principal dwelling if the front wall of s located at least 10 feet behind the façade of the
26 27 28 29 30	d.	<i>Alleys</i> i.	If a eas ded	ements icated,	oment includes alleys, the alleys may either be across the rear side of lots, or the alleys may be out in that case, the lot depth requirement is half the width of the alley.
31 32 33		ii.	setb	ack for	tial unit has alley access to a garage, the front the living portion of the house (but not the garage) used to 10 feet.
34 35 36		III.	fron	t yard s	ial unit is served by an alley, no driveways in the nall be permitted. All vehicular access, including shall be through the alley.
37 38 39 40 41	e.	subdivi resider	ew ho isions ntial o	omes co where driveway	instructed on lots of less than one acre, or in the majority of lots are less than one acre, all s that are less than 150 feet in length shall be , asphalt, or an asphaltic all-weather surface (not

1 2 3 4 5				their e in leng shall b	ng gravel) to standards prescribed by the Traffic Engineer for ntire length. For such residential driveways exceeding 150 feet of the the the the the the public street be paved with such materials. Alternative paving materials may be diff approved by the Traffic Engineer.
6	E.	Stand	ards for	Townh	ouse Residential ⁸⁹
7 8 9 10		1.	charac	urpose ter in ne	of these standards is to provide a distinctive architectural ew townhouse residential development that avoids featureless petition of facades.
11 12 13		2.		standa	rds shall apply to all townhouse structures as well as to le construction on a single lot.
14 15 16		3.	Buildir a.	No mo	culation and Architectural Variety bre than eight townhouse units may be attached in a single row ding cluster.
17 18 19			b.	shall b	uilding which is the aggregation of up to eight townhouse units be given architectural and visual interest through two or more of lowing methods:
20 21				i.	Providing a projection, recess, or reveal at least every twenty feet, with a minimum change of plane of two feet;
22				ii.	Use of two or more distinct materials on each facade;
23 24				iii.	Use of distinct variations in architectural style or features, such as a balcony or similar feature, between individual units;
25				iv.	Use of distinct variations in roof form.
26 27 28		4.	Entryw a.		atment aces should be prominent and visible from the street and from g areas.
29 30			b.		nain entry of each unit shall be emphasized by the use of at wo of the following:
31				i.	A porch or landing;
32				ii.	Double doors;
33				iii.	A roofed structure such as a portico, awning, or marquee; or
34 35 36				iv.	The inclusion of side-lights (glazed openings to the side of the door), and transom-lights (glazed opening above the door) in the entry design.

1 2 3		5.	Garage a.	If a dev	relopment includes alleys, the garages shall be accessed from ys, and the front setback may be reduced to ten (10) feet.
4 5 6			b.	facing	development does not include alleys, garages on the street- side of the building shall be recessed at least two feet behind paining façade.
7	F.	Standa	rds for	Multi-Fa	mily Residential (Four or Fewer Stories) ⁹⁰
8 9 10 11 12 13		1.	function in the euse of	rpose of nality of economic land,	these standards is to improve the appearance of design and multi-family development, recognizing the important of design c success of urban areas, the need to be more efficient in the and the need to ensure the adequate protection of the ea. More specifically, these standards are intended to:
14 15 16			a.	resider	e a distinctive architectural character in new multi-family tial developments that avoids featureless design, large masses, and repetition of facades;
17 18 19			b.		e sensitive design and planning of multi-family housing units reserves or improves the characteristics of surrounding oment;
20 21			c.		e building design, placement, and orientation that contributes use of neighborhood and community; and
22 23			d.	Improv dwellin	e the quality of life of residents of multi-family residential gs.
24 25 26 27 28 29		2.	stories mixed-u 21.04.0	elopmer or less use bu)50.H., <i>l</i>	t or redevelopment of multi-family residential structures of four shall comply with the following requirements. In the case of ldings, these standards and the standards of section <i>Mixed-Use District Development Standards</i> , shall both apply. ict, the more stringent standard shall control.
30 31 32 33		3.	Buildir a.	In mult	Parking Location, Layout, and Orientation i-building developments, the buildings are encouraged to be ed to enclose and frame common areas. Common areas and rds should be convenient to a majority of units.
34			b.	When i	nore than one multi-family structure is constructed:
35 36 37				i.	No side, end, or rear wall of a multi-family structure shall be located within 20 feet of a side, end, or rear wall of any other multi-family structure;
38 39 40				ii.	No side, end, or rear wall of a multi-family structure shall be located within 30 feet of the front wall of any other multi-family structure; and

1 2			iii.	No front wall of a multi-family structure shall be located within 40 feet of the front wall of any other multi-family structure.
3 4				rposes of measurement in this subsection, projections such as and bay windows shall not be counted.
5 6 7 8		C.	require	g ⁹¹ face parking shall comply with at least two of the following ments in addition to the parking lot landscaping requirements h in section 21.07.080:
9 10			i.	Separated from any building by a landscaped strip of at least six-feet in width, or
11 12			ii.	No more than one double-loaded row of parking between any building on the site and an adjacent public street, or
13 14 15			iii.	The parking lot is broken up into pods of no more than 40 spaces with pods separated by landscaped areas, raised sidewalks, ornamental fencing, or similar features.
16 17 18 19 20 21	4.	Buildir a.	Each fa shall in at least 20 perc	and Articulation ⁹² açade greater than 50 feet in length, measured horizontally, corporate wall plane projections or recesses having a depth of the percent of the length of the façade, and extending at least cent of the length of the façade. No uninterrupted length of any shall exceed 50 horizontal feet.
22 23		b.		cades of all multi-family buildings shall be articulated through prporation of three or more of the following:
24			i.	Balconies;
25			ii.	Bay or box windows;
26			iii.	Porches or arctic entries;
27			iv.	Dormers;
28			٧.	Variations in materials and/or colors;
29			vi.	Variations in roof forms;
30			vii.	Variation in window sizes and shapes; or
31			viii.	Vertical elements that demarcate building modules.
32 33		c.		gs located within 20 feet of the public right-of-way shall have a or raised at least one foot off the ground to maintain privacy.
34 35		d.		eight of each multi-family building taller than 35 feet shall be d down from its highest roofline at least one full story on any

1 2		of the building located within 50 feet of a street-right-of-way or an cent area zoned R-1 or R-2.
3 5 . 4 5 6 7 8	Roof Form a. <i>R</i> oo i.	f Design The incorporation of a variety of roof forms is strongly encouraged. Upper-level residential floors may be incorporated into the roof form to reduce the apparent height and mass of buildings.
9 10 11 12	ii.	Multi-family residential buildings shall be designed to avoid any continuous roofline longer than 50 feet. Rooflines longer than 50 feet shall include at least one vertical elevation change of at least two feet.
13 6. 14 15 16 17		d Detail Elements ade Materials Highly reflective materials shall not be used in areas where the location of the building will create undue solar, reflective gain to surrounding properties
18 19	ii.	Natural, smooth face CMU shall not be used as a primary exterior finish.
20 21	iii.	Siding material shall be continued down to within nine inches of finished grade with the following exceptions:
22 23		(A) If a secondary wainscot finish precludes this condition; or
24 25 26 27 28		(B) If grade dictates a siding transition. If this occurs then the area in question must not exceed 18 inches above grade and must be screened by approved landscaping.
28 29 30	Exce	dows ept for facades built on side lot lines, all elevations on multi-family lings shall contain at least 12 percent windows.
31 7. 32 33	a. Build	and Porches ding/development entries shall comply with at least two of the wing requirements: 93
34 35	i.	At least one main building entry shall face the primary adjacent public street;
36 37	ii.	Building entrances face a courtyard that has a direct and visible connection to an adjacent public street;
38 39	iii.	Building entries are connected to a public sidewalk by walkways that are not routed through a parking lot;

1 2 3			iv.	The pedestrian entry to the site from the public right-of-way is emphasized with landscaping, special paving, gateways, arbors, or similar features; or
4 5			v .	No more than one curb cut per 100 feet of frontage. Shared driveways are encouraged.
6 7		b.		ont entry of any structure shall be emphasized by the use of at wo of the following:
8			i.	A porch or landing;
9			ii.	Double doors;
10			iii.	A roofed structure such as a portico, awning, or marquee;
11 12 13			iv.	The inclusion of side-lights (glazed openings to the side of the door), and transom-lights (glazed opening above the door) in the entry design;
14			v.	Decorative lighting; or
15			vi.	Enhanced landscaping.
16 17 18	8.	Buildin		be designed so that entries, steps, balconies, and pedestrian ected from precipitation shedding off roofs.
19 20 21 22 23 24 25	9.	Acces a.	storage be acc access	
26 27 28 29 30 31 32		b.	Dumps fewer shall p shall n street	Receptacles/Dumpsters ⁹⁴ sters shall not be allowed in developments or sites with six or dwelling units. Developments or sites with six or fewer units provide covered storage for trash receptacles. Such storage not be located between any building and the primary adjacent frontage. Where dumpsters are allowed, they shall comply with quirements of 21.07.080H.
33 34 35 36 37 38 39		C.	Garag i.	Attached or Detached Garages To the maximum extent feasible, garage entries and carports shall not be located between a principal multi-family building and a required street frontage, but shall instead be internalized in building groups so that they are not visible from adjacent streets.

1 2 3 4 5 6 7		ii.	Garages and carports shall be limited to six spaces per structure to avoid a continuous row of garages. No more than six garage doors may appear on any multi-family building elevation containing front doors, and the plane of each garage door shall be offset at least two feet from the plane of the garage door adjacent to it.
8 9 10 11		iii.	Design Detached garages and carports shall be integrated in design with the principal building architecture, and shall incorporate similar and compatible forms, scale, materials, color, and details.
13 14 15		iv.	Parking Structures Underground parking structures are strongly encouraged for multi-family developments. ⁹⁵
16 17 18 19		design of snow	e areas shall be indicated clearly on all site plans. Location and w storage areas in parking lots shall comply with the provisions 21.07.090H.5., Snow Storage and Handling.
20	G.	Standards for Multi-F	family Residential (More Than Five Stories)
21 22 23			ntial dwellings that are five stories or greater in height shall relopment standards for public/institutional, and commercial ection 21.07.110.
24	21.07.110 PUBLI	IC/ INSTITUTIONAL AN	D COMMERCIAL BUILDING STANDARDS ⁹⁶
25	Α.	Purpose	
26 27 28 29 30 31		areas, encourage visi suitable for Anchorage street fronts, project	ded to promote high-quality building design in non-residential ual variety in such areas, ensure building layout and design e's northern climate, foster a more human scale and attractive a positive image to encourage economic development in ct property values of both the subject property and surrounding
32	B.	Applicability	
33 34 35 36 37 38		Table 215-2, <i>Tables</i> and multi-family develor of this section 21.07.1	tructure that will contain a use categorized in Table 21.05-1 or of Allowed Uses, as a public/institutional or commercial use, opment of five or more stories, shall comply with the standards 10. However, special-purpose public facilities such as airports highly unique design and functionality requirements shall be on.
39	C.	Alternative Equivaler	nt Compliance

1 Applicants for alternative equivalent compliance shall demonstrate design strategies 2 that address each of the four core subject areas set forth below in subsection G. Weather Protection for Pedestrians⁹⁷ 3 D. 4 1. General 5 Sheltering roofs or building projections for protection from rain, wind, snow, 6 and ice shall be provided in areas of pedestrian activity around 7 and commercial buildings, public/institutional includina sheltered 8 entranceways at major entrances and pedestrian-oriented facades along 9 public sidewalks or walkways. 10 2. **Primary Facades and Entrances** 11 Buildings shall incorporate canopies, awnings, or similar sheltering structures 12 across 60 percent of any ground-floor façade abutting a street sidewalk or 13 pedestrian walkway. The minimum depth of any canopy or awning shall be 14 eight feet to minimize snow, ice, and drip lines along pedestrian walkways. 15 The canopy or awning shall be at least eight feet and no more than 14 feet 16 above the sidewalk or walkway elevation. 17 3. **Protective Roof Design** 18 Buildings shall avoid roof designs, canopy structures, or other design features 19 that would allow accumulated snow, ice, or rain to fall or slide onto sidewalks 20 or walkways. Roofs shall be designed to protect doorways, exterior stairs, balconies, garage entrances, bicycle parking, and pedestrian sidewalks and 21 22 walkways from snow and ice fall. Where sloping roofs incline toward such 23 areas, protective features such as arcades, loggias, and dormers shall be 24 used to protect pedestrians from falling snow. Such devices need not be 25 continuous if foundation planting beds are located to set the walkway away 26 from the building facades. 27 4. Wind Study 28 A wind study shall be performed on all buildings proposed to be over ten (10) 29 stories tall. When the study results show that the proposed building will accelerate wind velocity at ground level, then Wind Mitigation (21.07.110G.4.c) shall be selected as one of the minimum design 30 31 32 requirements as required below. 33 E. **Height Transitions For Neighborhood Protection** 34 The height of each building taller than 35 feet shall be stepped down from its highest 35 roofline at least one full story on any end of the building abutting an area zoned R-1 or 36 R-2. 37 F. **Snow Storage** 38 Snow storage areas shall be indicated clearly on all site plans. Location and design of 39 snow storage areas in parking lots shall comply with the provisions of subsection

21.07.090H.5., Snow Storage and Handling.

All buildings shall meet at least ten of the following requirements, which are organized

into four subject areas: Building Orientation, Building Massing, Façade Appearance,

General Standards Menu⁹⁸

G.

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and Human /Northern Climate Response. Each subject area has a minimum number of options required. "Innovation credits" may be used to satisfy only one of the minimum ten requirements, and shall not be used to satisfy the minimum requirement in a subject area when the minimum requirement for that subject area is one. Options that do not apply in certain situations shall not be chosen (for instance, structures less than six stories may not choose the "Shadow Impact Analysis and Mitigation" option). Some building features may satisfy more than one option.

1. Building Orientation (three options required)

a. Four-sided Design

Architectural features and treatments shall not be restricted to a single façade of any primary structure. All sides of a building open to view by the public, whether viewed from public or private property, shall display a similar level of quality and architectural interest, and shall include similar varieties of materials, trim, and horizontal and vertical articulation.

b. Multiple-Building Development Orientation

If the proposed development consists of more than one building, all primary and pad site buildings shall be arranged and grouped so that their primary orientation frames and encloses a pedestrian and/or vehicle access corridor within the development site

c. Streetscape

The primary building is built at the property line or setback line (whichever is applicable) of the primary abutting street, with any required parking either to the side or behind the building. An entrance is provided on the side of the building abutting the primary abutting street.

d. Screening Service Functions

Building functions that do not directly serve the public, such as loading bays and utility boxes, shall not be placed directly along the street. Garages that face streets shall be recessed behind the façade of primary buildings.

e. Solar Orientation

Primary public entrance areas, outdoor community spaces and plazas, gallerias and atriums, and other public spaces and pedestrian areas shall be located and oriented for solar exposure during times of public use.

f. Shadow Impact Analysis and Mitigation

Structures greater than six stories in height shall be designed so as not to have an unnecessarily substantial shadow impact on neighboring properties and public spaces. The applicant shall to evaluate the impact of shadows potentially cast by proposed development, and implement appropriate design measures to reduce or mitigate any undesirable shadow conditions. Example measures include repositioning of a structure on the lot, increasing the setbacks, reducing or shifting a building's height or mass, redesigning a building's shape using a narrow east-west profile, and angled or terraced roof forms.

1 2 3 4 5		g.	Credit vinnovati	will be allowed for special attention to orientation through ons not covered by above credits. The applicant shall strate a specific orientation quality that enhances the ment.
6 7 8 9 10 11	2.	Buildin a.	Building A single containi shall be	e, large, dominant building mass shall be avoided. Buildings ng 20,000 square feet or more and over one story in height e designed to appear more as an aggregation of smaller g blocks" through variations in height, texture, color, and
13 14 15 16 17 18		b.	Sloping commer may be the roof	roofs containing top-floor dwelling units or top-floor roial spaces such as offices are encouraged. Such a top floor added above the maximum height limit for the district, where slope does not exceed 8:12 and the total additional height exceed 15 feet.
19 20 21		C.	Flat por	ent Roofline tions of roofs shall have distinctive cornice features to provide terminus at the roofline and create visual interest.
22 23 24 25 26		d.	Credit w through	tion in Design vill be allowed for special attention to massing and roof design innovations not covered by above credits. Applicants shall strate a specific massing quality that enhances the ment.
27 28 29 30 31	3.	Facade a.	Primary shall income	rance ticulation structures having single walls exceeding 50 feet in length corporate two or more of the following features at least every in length:
32 33				Changes in color, graphical patterning, changes in texture, or changes in material;
34 35 36				Projections, recesses, and reveals, expressing structural bays or other aspects of the architecture with a minimum change of plane of 12 inches;
37			iii.	Windows and fenestration;
38			iv.	Gable projections;
39			v.	Horizontal/vertical breaks; or
40			vi.	Other similar techniques.
41		b.	Entrand	ces

1 2			orimary structure shall have a clearly defined main pedestriance featuring at least three of the following elements:
3 4		i.	Canopies, porticos, overhangs, arcades, or similar sheltering cover;
5		ii.	Recesses or projections;
6		iii.	Arches;
7		iv.	Peaked roof forms;
8		v.	Outdoor patios;
9		vi.	Display windows;
10 11		vii.	Architectural tilework or moldings integrated into the building design; or
12 13		viii.	Integrated planters or wing walls that incorporate landscaped areas or seating areas.
14 15 16 17 18 19 20 21	C.	A hum building such s "Humal beams larger i high er	an scale shall be achieved near ground level on commercial gs and along street façades and entryways through the use of scale elements as windows, doors, columns, and beams. In scale "means the entrances, windows, doors, columns, and on large buildings are in proportion to and not significantly than the people using the building. For example, a ten-foot intrance cover is in proportion to a person using it; a 30-foot blonnade is not.
23 24 25 26 27	d.	Credit v	etic Innovation will be allowed for special attention to façade treatment through tions not covered by above credits. The applicant shall strate a specific aesthetic intent that enhances the pment.
28 4. 29 30 31 32 33 34	Humar a.	Weath Building board s accuming durable	nern Climate Factors (one option required) er Protection for Buildings gs shall incorporate weather-resistant (concrete or cement siding) as a protective covering where snow is likely to drift or ulate against exterior walls in the winter. Finish shall be as to withstand impacts and abrasion due to snow removal as at sidewalks.
35 36 37 38 39	b.	Provide ground The m	d Sidewalks (this option counts for two requirements) e automatic snow-melt systems across 60 percent of any floor façade abutting a street sidewalk or pedestrian walkway. Inimum depth of any system shall be eight feet and include ons to prevent ice accumulation at limits of heated areas.
40	c.	Wind I	Mitigation

1 Wind effects shall be minimized on and around tall buildings by use of 2 one of the following techniques 3 i. Aerodynamic Profile 4 The tower portion of tall buildings with more than six stories 5 should have rounded aerodynamic profiles and turn their 6 narrow face or be angled diagonal to prevailing winter winds. 7 Wider buildings with long sides to the wind which increase the 8 downwash effect shall be avoided. 9 ii. Stepped Terraced Form 10 Terrace taller buildings down to the street in stair-step 11 fashion. Buildings significantly taller (more than twice as tall) 12 than their neighbors or that are taller than 6 stories shall be 13 designed with horizontal projections and stepped, setback 14 facades starting between 20 to 35 feet (4 stories maximum) 15 above the street. The setback from the street wall to the 16 tower portion of a tall building shall be at least 20 feet. Protective Wall Projections 17 iii. 18 Use projections such as awnings, balconies, and marquees 19 to protect the public spaces and building entrances below 20 from wind down drafts. 21 d. Microclimate Wind Mitigation 22 Buildings should be relatively low in height, or similar in height to 23 adjacent buildings. Abrupt changes in building height from one 24 building to the next significantly impact winter wind velocity in streets 25 and spaces. Gradual height transitions allow more of the cold wind to 26 pass over the tops of buildings. Where building heights increase in 27 the direction of prevailing wind flow, buildings taller than their upwind 28 neighbors should be less than twice the average height of the nearest 29 upwind buildings. Height transitions from one building to another 30 should not exceed 100 percent. 31 Innovation in Northern Design e 32 Credit will be allowed for special attention to specific treatment 33 through innovations not covered by above credits. The applicant 34 shall demonstrate a specific northern design strategy that enhances 35 the development. 21.07.120 LARGE COMMERCIAL ESTABLISHMENTS⁹⁹ 36 37 Α. **Purpose** 38 Large commercial establishments often have high visibility from major public streets, a 39 large physical scale, and a great volume of use by many residents and visitors. As a 40 consequence, their design determines much of the character, function, and image of 41 this community and its streetscapes and commercial areas. The purpose of this 42 section is to encourage major commercial developments to contribute to and respect 43 Anchorage as a unique place and to physically integrate with the community in a

positive and architectural and site design sensitive manner. The standards of this

section augment existing basic standards for development found elsewhere in this

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1 chapter with more specific interpretations that apply to large commercial 2 establishments. These standards promote: a basic level of architectural variety and interest; a compatible appearance and scale; pedestrian and parking lot access; 4 orientation of buildings and entrances in relation to surrounding streets; provisions for 5 adaptive reuse of prominent vacant buildings; and mitigation of negative impacts of 6 large scale commercial developments. 7 В. **Applicability** 8 The standards of this section 21.07.120 shall apply to any use in the Retail (Sales); 9 Retail (Personal Service); Retail (Repair and Rental); Animal Sales, Service, and 10 Care; Food and Beverage Service; or Indoor Entertainment use category, or any 11 combination thereof, occupying more than 25,000 gross square feet of floor area, 12 including any secondary buildings or pad lots as part of the same development site. 13 C. **Relationship to Other Standards** 14 The provisions of this section shall replace the provisions of section 21.07.110, 15 Public/Institutional and Commercial Building Standards, but shall apply in addition to 16 all other generally applicable standards found elsewhere in this chapter and title. 17 Where there is a conflict with generally applicable standards in this chapter, the 18 standards of this section shall apply. Where there is a conflict with district-specific 19 standards in chapter 21.04 of this title, the district-specific standards shall apply. 20 D. **Mandatory Standards** 21 1. **Weather Protection for Pedestrians** 22 Buildings and roofs shall be designed so that precipitation shall not fall on 23 sidewalks, walkways, or building entrances. Design options in the "Ground 24 Level Expression" and "Prominent Entries" subject areas may fulfill this 25 requirement. 26 2. Adjacent Residential Development 27 Level 4 Screening landscaping shall be provided along property lines that are 28 adjacent to residentially-zoned property. The landscaping shall allow for any 29 pedestrian connections provided by this section. 30 3. **Prohibited Materials** 31 Exterior building materials shall not include the following: 32 Plywood without board and batten; a. 33 b. Unstained or untreated wood, except for cedar or redwood; 34 C. T-111 siding; and 35 d. Smooth-face CMU used on more than 20% of each façade. 36 Neon tubing shall not be an acceptable building/roofline outline feature. 37 4. **Outdoor Sales and Display** Intent Statement 38 a.

				Sec. 21.07.120 Large Commercial Establishments
1 2 3			establis	reen storage and display areas of large commercial shments from adjacent properties, public streets, and customer ces, and to mitigate visual and noise impacts.
4 5 6		b.	Perma i.	nent Outdoor Display, Sales, and Storage of Merchandise Any outdoor storage, display, or sales location shall be permanently defined on a site plan.
7 8 9			ii.	The size of permanent outdoor storage, display, and sales areas shall be ten percent (10%) of the footprint of the principal building, or 15,000 square feet, whichever is less.
10 11 12			iii.	Permanent outdoor storage, display, and sales areas shall be contiguous to the building and shall not be within 100 feet of residential property.
13 14 15 16 17 18 19			iv.	All outdoor storage, display, and sales areas shall have permanent walls and/or screening fences, no more than 15 feet high, made of materials and colors designed to be complementary to those used as predominant materials and colors on the building. Merchandise shall not be stacked above the height of the screening wall or fence. Any chain link fencing used shall be dark-colored and covered with a windscreen, which shall be maintained in good repair.
21 22			v.	Outdoor storage, display, and sales areas shall be counted when calculating required parking.
23 24 25 26		C.	Tempo located	prary Outdoor Display and Sales rary outdoor display and sales of merchandise shall not be in required parking areas, on pedestrian walkways or lks, or in required landscaping.
27 28 29 30 31	5.	Master a.	Intent To integand im	grate the location, orientation, and appearance of all structures approvements within a large commercial establishment as a coherent and accessible site development.
32 33 34 35 36 37		b.	Large of building comme site pla	commercial establishments on sites that include more than one g, or that include multiple pad lots or platted lots for separate ercial establishments, shall, at the time of plat review or major an review, be required to establish a master site plan for the n, design and orientation of principal and secondary buildings
39 40 41 42 43		C.	Building establis principa any con	ability of Large Commercial Establishment Regulations g and site design standards for large commercial shments in this section, unless stated to apply specifically to all buildings, apply to both principal and secondary buildings on mmercial tract within a large commercial establishment site or ster plan area.

1 2 3 4 5 6 7			d.	Secondary Building Orientation to Public Streets Peripheral secondary buildings located at the edge of the site next to a public street or street corner shall provide at least one customer entrance facing each abutting public street. A corner entrance facing both streets may meet this requirement. In such a case, for purposes of design requirements in this section for facades with customer entrances, the entrance shall be considered to be on both facades.
8 9 10 11 12			e.	Integration of Secondary Buildings with Principal Building and Site Design Building colors and materials, architectural features, detail elements, and roof forms of secondary buildings on the site shall be compatible and integrated with the colors, building materials and architectural character and design of the principal building(s) on the site.
14	E.	Genera	al Stand	ards Menu
15 16 17 18 19 20 21 22 23		Connect Express options 11 required do not a a flat-ro	ments, we tions are sion, and required uirement area whapply in pofed but	mercial establishments shall meet at least 11 of the following which are organized into six subject areas: Site Layout, Pedestrian of Common Spaces, Roof Form, Façade Articulation, Ground Level of Prominent Entries. Each subject area has a minimum number of the "Innovation credits" may be used to satisfy only one of the minimum its, and shall not be used to satisfy the minimum requirement in a men the minimum requirement for that subject area is one. Options that certain situations shall not be chosen (for instance, a development with ilding may not choose the "Sloping Roof Form" option). Some building atisfy more than one option.
25 26 27 28		1.	Site La a.	yout (one option required) Location of Parking Lots No more than 50 percent of vehicle parking spaces provided shall be located in the front parking area (defined in 21.13).
29 30 31 32 33			b.	Multiple Entrances The principal building(s) shall have customer entrances on at least two sides of the building that face an abutting street from which access to the site is taken, with at least one of the required entrances facing the street to which the building is closest. A corner entrance shall be counted as an entrance on either façade.
35 36 37 38			C.	Pedestrian-Friendly Entrance At least one customer entrance of the principal building is located within one hundred (100) feet of the property line abutting the street from which the main access to the site is taken.
39 40 41 42			d.	Innovation in Site Layout Credit will be allowed for special attention to site layout through innovations not covered by the above options. The applicant shall demonstrate a specific site layout that enhances the development.
13 14		2.	Pedest a.	rian Connections and Common Spaces (one option required) Connections to Neighboring Properties

1 Pedestrian walkways shall be provided from the principal building to 2 adjacent developments, and to adjacent neighborhoods where trail or 3 street connections are available. 4 b. Building Façade Walkways 5 Walkways at least six feet wide (at least 8 feet if abutting a parking lot 6 without wheel stops to prevent vehicle overhang into the walkway) 7 shall be provided along the full length of every building façade that 8 has a customer entrance or abuts a customer parking lot. This option 9 may be incorporated with a covered arcade as part of a "Façade 10 Articulation" option, or with foundation plantings, as part of a "Ground Level Expression" option. 11 12 Common Space Provided C. 13 The establishment shall provide at least one common public space, 14 such as a plaza, patio, courtyard, or atrium with indoor/outdoor 15 connections, at or near the principal customer building entrance. The 16 common space(s) shall total not less than one percent (1%) of the 17 total gross floor area of the principal building, and no dimension shall 18 be less than fifteen (15) feet. The common space(s) shall be visible 19 and central to pedestrian circulation on site. Common spaces are 20 encouraged to have good solar access and/or provide views of the Chugach Mountains or other major landmark(s). 21 22 Innovation in Pedestrian Connections and Common Spaces d. 23 Credit will be allowed for special attention to pedestrian connections 24 and common spaces through innovations not covered by the above 25 The applicant shall demonstrate a specific pedestrian 26 amenity that enhances the development. 27 **Roof Form Variation (one option required)** 3. 28 Slopina Roof Form 29 The roof of the principal building shall include at least three roof slope 30 planes. 31 b. Parapet Variation 32 Parapet height shall vary by at least two vertical feet, at least every 33 100 horizontal feet. Variations to parapet height may include pilasters 34 and projecting raised entrance features. 35 Varied Roof Form C. 36 Roof form variation shall be achieved by one of the following: 37 i. A change in materials and/or color; 38 ii. A projecting cornice line; 39 iii. Overhanging roof or eaves, extending no less than three (3) 40 feet past the supporting walls, supported by brackets; or 41 Sloping rooflines with an average slope of no less than one iv. 42 (1) foot of vertical rise for every three (3) feet of horizontal

1 2			, and not greater than one (1) foot of vertical rise for every e (1) foot of horizontal run.
3 4 5 6 7	d.	Credit will through inn	in Roof Form Variation be allowed for special attention to roof form variation ovations not covered by the above options. The applicant nstrate a specific roof form variation that enhances the nt.
8 4. 9 10 11 12 13	Façade a.	Façade Art All façades shall be incorporatin	n and Features (one option required) ticulation longer than 100 feet in length, measured horizontally, articulated into smaller units of building mass by a wall plane offsets having a depth of at least 5 percent of the façade and extending at least 20 percent of the
15 16 17 18 19 20	b.	and appear story buildi residential,	buildings to display the greatest amount of visual interest less industrial whether they function as single or multiplengs, all building façades that face public streets, or parks and recreation, or PLI-zoned land, shall consist of able base, middle, and top sections.
21 22 23 24 25 26 27		coll inte mo (ap	se se level or ground floor facades shall provide the greatest ection of architectural detail features to create visual erest at the pedestrian level. Methods shall include two or re of the architectural detail features listed below: plicable items may also satisfy the "Principal Ground Floor cades" option below):
29		(A)	Masonry cladding;
30		(B)	Windows;
31		(C)	Architectural bays;
32		(D)	Changes in materials and/or color;
33		(E)	Ornamental details and/or artwork;
34 35 36 37 38 39		ii. <i>Mid</i>	Roof overhangs, canopies, or arcades. Idle e middle shall be distinguishable from the base section, i include one or more of the architectural detail features ed below:
40		(A)	Windows;
11		(B)	Signage;

1				(C)	Changes in materials and/or colors.
2 3 4 5			iii.	pron	topmost portion of a building shall be made visually ninent using the features required in subsection 3, Roof n Variation.
6 7 8 9 10		C.	Credit v features applicar	vill b s thro nt sh	in Façade Articulation and Features e allowed for special attention to façade articulation and ough innovations not covered by the above options. The all demonstrate specific façade articulation and features e the development.
11 12 13 14 15 16	5.	Ground a.	Princip Façade: onsite custome ground	al Gr s of a walky er er floor	ession (three options required) round Floor Façades any principal or secondary building that front directly onto ways, public streets, or parking lots, or that have a strance, shall incorporate three or more of the following detail elements (applicable items may also satisfy the ement of the "Façade Variation" option above):
18			i.	Mas	onry or stone cladding;
19			ii.	Artw	ork;
20			iii.	Orna	amental pedestrian lighting and brackets;
21			iv.	Med	allions;
22			v.	Belt	courses;
23			vi.	Orna	amental plinths for columns;
24			vii.	Kick	plates for storefront windows;
25			viii.	Pror	ninent window sills;
26			ix.	Tilev	vork.
27 28 29 30 31		b.	Canopie eight (8 ground	es, a s) fee leve	d Canopies wnings, arcades, or similar sheltering structures, at least et in depth and no more than fourteen (14) feet above I, shall be provided along sixty percent (60%) of any façade abutting a street sidewalk or pedestrian walkway.
32 33 34 35 36 37 38 39		C.	ten (10 custome windows twenty-f	num) fee er er s wit five p ill be	of sixty percent (60%) of the area between two (2) and at above grade of any ground floor façade that has a antrance or faces a public street, shall be comprised of the views into the interior of the building. A minimum of percent (25%) of ground floor facades that face parking comprised of windows with views into the interior of the

1 2 3		d.	Windov	w Bays and Mullions ws at the ground level shall be divided into increments by s and architectural bays.
4 5 6		e.	Plantin	ation Landscaping g beds at least six (6) feet wide shall be provided at the base des that face public streets and/or parking areas.
7 8 9 10		f.	Credit through	will be allowed for special attention to ground level expression in innovations not covered by the above options. The applicant emonstrate specific ground level expression that enhances the poment.
12 13 14 15	6.	Promir a.	Visual In orde principa	trances (one option required) Prominence er to provide clearly defined and highly visible entrances, al building(s) and secondary buildings on a site shall have her entrances featuring at least three of the following:
17 18 19			i.	Canopies, arcades or porticos that, while satisfying weather protection requirements of subsection A.1. above, also lend visual prominence to the entrance;
20			ii.	Overhangs, recesses, or projections;
21			iii.	Raised corniced parapets over the door;
22			iv.	Peaked roof forms;
23 24			v .	Tower features integrated with the building design that extend above the building roof line;
25			vi.	Arches;
26			vii.	Outdoor patios;
27			viii.	Display windows;
28			ix.	Integral planters or wing walls;
29			x.	Entrance atriums with visual connections to outside.
30 31 32		b.	The pri	parency and Light incipal customer entrance to any building shall feature at least the following elements:
33			i.	Clerestory windows;
34			ii.	Transom windows;
35			iii.	Windows flanking the main entrance door (sidelight windows);

1				iv.	Large entrance door(s)—transparent and double hung;
2				٧.	Ornamental light fixtures.
3 4 5 6 7			C.	Credit throug shall	will be allowed for special attention to prominent entrances h innovations not covered by the above options. The applicant demonstrate a specific prominent entrance feature that ces the development.
8	21.07.130 EXTER	RIOR LIG	HTING	100	
9	A.	Purpos	se ¹⁰¹		
10 11 12 13 14 15 16 17		helps to climate municipath that is a and its to clear	co deteri commu cal, resi adequate surroun arly ren	mine thunity. dential, e for sadings; dings;	part of the urban infrastructure, is an urban design tool that e safety, livability, and ambiance of Anchorage as northern The purpose of this section is to foster outdoor lighting for commercial, industrial, and public/institutional developments fety and convenience; in scale with the activity to be illuminated lirected to the surface or activity to be illuminated; and designed ople and objects and contribute to a pleasant nighttime purposes are to require outdoor lighting that:
18 19 20 21		1.	areas multifai	of pub mily res	ry and personal security as well as convenience and utility in lic use or traverse, for municipal, commercial, industrial, sidential, and institutional uses where there is outdoor public hours of darkness;
22 23 24		2.	better		and excessive brightness to improve visual performance, allow with relatively less light, and protect residents from nuisance t;
25 26 27		3.	the co	onseque	ass light onto neighboring properties to protect inhabitants from ences of stray light shining in inhabitants' eyes or onto operties;
28 29 30		4.	directin	ng light (t and energy savings to establishments by carefully aiming and only at the surface area or activity to be illuminated, using only light necessary;
31 32 33		5.	illumina	ation le	and tolerances of the surrounding district, to provide adequate vels in commercial districts while protecting residential areas sleep from excessive light; and
34 35		6.			pollution to minimize the negative effects of misdirected light views to the winter night sky.
36	В.	Applic	ability		
37 38 39 40		1.	All out	door lig ted in s	Lighting hting shall comply with the standards of this section, unless ubsection 21.07.130.C. below. In addition, in certain cases interior or exterior modifications or expansions of existing

1 structures and uses may be required to comply with the following standards 2 pursuant to subsection 21.11.010.H, Expansion, Alteration, or Major Repair. 3 2. **Attention-Getting Devices** 4 Signs and other attention getting devices as defined in chapter 21.13, 5 including any lighting of a specific architectural feature, name, or logo 6 designed to act as advertising devices calling attention to the building owner 7 or tenant, are subject to the sign illumination standards of chapter 21.10. 8 C. **Exempt Lighting** 9 The following luminaires and lighting systems are exempt from the requirements of 10 this section: 11 1. Single-Family Residential: Soffit or wall-mounted luminaires with a light output 12 of less than 1000 lumens and permanently attached to residential dwellings. not to exceed the height of the eave 103 (homeowners may use luminaries with 13 14 a higher light output, but will then have to comply with section G. below); Temporary decorative seasonal lighting provided that individual lamps do not exceed a light output of 200 lumens; ¹⁰⁴ 15 2. 16 17 3. Temporary lighting for emergency or nighttime work and construction: 18 Temporary lighting for theatrical, television, and performance areas, or for 4. 19 special public events; 20 5. Lighting for a special district, street, or building that, according to an adopted 21 municipal plan or ordinance, is determined to require special lighting 22 aesthetics as part of its physical character; 23 6. Lighting required and regulated by the Federal Aviation Administration; and 24 7. Public street and right-of-way lighting. 25 D. Nonconformities 105 26 In order to (1) amortize existing nonconforming lighting that may otherwise linger for 27 years or decades, and (2) maximize fairness between both pre-existing and new 28 establishments, there shall be a grace period for all outdoor lighting. Outdoor lighting 29 shall be required to conform to the standards of sections G.1. and G.2., within five 30 years from the effective date of this title. Project applications received prior to such 31 conformance date may choose to conform or to postpone conformance until the five-32 vear deadline. 33 E. **Lighting Zones Established** 34 Using Table 21.07-13 as a guide, the municipality shall determine and maintain three 35 lighting zones to ensure that lighting standards fit the needs and tolerances of Anchorage's broad range of urban and rural, commercial and residential, and low 36 37 versus high intensity use areas. Lighting zones are intended to allow for relatively 38 higher illumination intensities in commercial districts, while protecting the more light-39 sensitive neighborhoods and residential areas from excessive or misdirected light.

The lighting zone (LZ) of a site or project shall determine the standards for lighting as

TABLE 21.07-13: LIGHTING ZONE CHARACTERISTICS						
Lighting Zone	Ambient Light Level	Representative Locations	Zoning Districts			
LZ-1	Relatively Low	Rural areas, low-density urban areas, natural open spaces.	W, R-1, R-2, R-5, R-6, R-7, R-9, R-10, OL, TA, AF, PLI [1], Girdwood [2].			
LZ-2	Medium	Medium to high density residential neighborhoods.	R-3, R-4, RMX, NMU, O, PLI [1].			
LZ-3	Relatively High	Medium to high intensity commercial and industrial districts.	C-2A, C-2B, C-2C, GC, I-1, IC, AD RCMU, CCMU, MC, MI, I-2, PLI [1].			
Additional Observations						

Additional Standards:

F. Standards for Safety, Personal Security, and Convenience. 106

1. Illumination Levels and Locations

Sufficient lighting shall be provided in pedestrian use areas and in high-risk locations. Key locations and high-risk uses such as parking lots, transit stops, ATMs, and convenience stores shall be illuminated to facilitate nighttime use and enhance security. Lighting shall be designed to avoid excessive brightness or glare which reduces visibility and visual acuity, or the fish-bowl effect which allows users to be observed but makes it difficult for them to observe their surroundings. Parking lot lighting shall adhere to minimums required in subsection I.1 below. Pedestrian walkways leading to primary building entries, exterior stairways, and other pedestrian paths that are used after daylight hours shall be illuminated at least to minimum IESNA standards, using a uniformity ratio not greater than 10:1 maximum to minimum, to avoid extreme contrasts between lighting levels. Dedicated pedestrian lighting, lit interior spaces with retail windows along sidewalks, and other pedestrian-oriented lighting sources are preferred.

2. Color Rendition¹⁰⁸

White light sources improve nighttime vision and reduce reaction time to possible danger by providing superior color recognition, object identification, and peripheral vision detection. Nighttime environments become more visible, comfortable, and inviting at lower light levels with less disability glare. All fixtures for area lighting shall use white light sources that have a color rendering index (CRI) of 70 or greater.

3. Maintenance, Repair and Replacement 109

Poorly maintained luminaires may not provide adequate illuminance for safety and security. Lighting installations shall be maintained such that they continually provide acceptable illuminance levels and glare control required in

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^[1] In the PLI District, lighting standards for development shall be that of the Lighting Zone that most closely matches the character of the setting surrounding the project site.

^[2] *Girdwood:* LZ-1 the default lighting zone for Girdwood zoning districts, except where stated otherwise in section 21.09.[x-ref].

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this section. Damaged and/or inoperative lighting fixtures and luminaires shall be promptly repaired or replaced. All luminaires shall be properly and permanently installed so as to maintain required shielding. Any structural part of the fixture providing this shielding must be permanently fixed.

G. Control of Glare and Light Trespass¹¹⁰

1. Shielding and Glare

a. Generally Applicable Standard

For all outdoor area lighting, cutoff-type luminaires shall be installed pursuant to Table 21.07-14 below. Directional luminaires such as floodlights and spotlights shall be so installed pursuant to section I below.

b. District-Specific Shielding Standards

Shielding requirements specific to the various districts shall be as shown in Table 21.07-14. Residential uses in the R-5, R-6, R-7, R-9, and R-10 districts, shall be exempt from the standards of Table 21.07-14.

TABLE 21.07-14: REQUIRED SHIELDING AND MAXIMUM LUMENS								
Lighting Zone	Full Cut-off Luminaire	Cut-off Luminaire	Semi Cut-off Luminaire	Non Cut-off Luminaire				
LZ-1	10,000	6,000	1,000	1,000				
LZ-2	26,000	10,000	2,000	1,000				
LZ-3	40.000	10,000	5.000	2,000				

[illustrate the luminaire cut-off types here]

c. Glare onto Neighboring Properties

All lighting that emits more than 2,000 lumens shall be aimed, shielded, or located such that the source of illumination (bulb or direct bulb image) is not visible from any adjacent property, viewed at the site's property line.

2. Light Trespass

Maximum light levels measured vertically at the site's property line, at eye level (measured at five feet in height), shall be as shown in Table 21.07-15:¹¹¹

TABLE 21.07-15: MAX	IMUM LIGHT TRESPASS
Lighting Zone of Neighboring Property	Maximum Light at the Property Line
LZ-1	0.1 footcandles
LZ-2	0.5 footcandles
LZ-3	1 footcandles

3. Mounting Height

Mounting heights of lighting fixtures shall be limited to avoid defeating the purpose of cut-off style shielding, as follows:

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a. Pole Mounted Lighting

Lights mounted onto poles or any structures intended primarily for mounting of lighting shall not exceed a maximum mounting height according to the following table:

TABLE 21.07-16: MAXIMUM POLE MOUNTING HEIGHT (ft)						
Lighting Zone	Parking Lots, Driveways, Exterior Sales and Display, Loading Areas.	Pedestrian Walkways and Areas				
LZ-1	20	14				
LZ-2	25	18				
LZ-3	30 [1]	18				

Additional Standards:

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b. Lighting Mounted to Buildings or Structures

Light fixtures mounted to buildings or other structures shall not exceed the height of the roof or eave of the building or structure at the location of the light.

H. Timing Controls

Exterior lighting shall be timer-controlled with photocell override. Simple dusk-to-dawn controls keep lights on for the maximum time during hours of sleep and inactivity, and waste energy. More appropriate timing controls shall be used, as follows:

- a. All non-residential building, service and loading area lighting, except security lighting, shall be turned off one hour after business operations have ceased for the day and shall remain turned off until one hour before business operations resume on the next day. 112
- b. When provided, security lighting shall be activated with motion sensors so that lights come on only when someone is in the immediate area, except where the applicant can demonstrate that motion-sensor lighting will cause unacceptable increased risk and continuous security lighting levels must be maintained. Maximum average illumination levels for security lighting that is not motion activated shall be 1.5 footcandles.

I. Standards for Specific Types of Lighting

The additional standards in this subsection shall be in addition to the generally applicable standards. However, where there is a conflict, the more restrictive standard shall apply.

1. Parking Lot Lighting

a. Maximum Lighting Level Uniformity at Any Point (Maximum:Minimum)

^[1] The mounting height may be up to 35 feet where the fixture is located beyond 75' from the site's boundary, provided that for mounting heights in excess of 30 feet, the distance of the fixture to the site's boundary is not less than three times the mounting height.

1			i.	Residential: 15:1
2			ii.	Nonresidential: 10:1
3 4		b.		m Initial Horizontal Illumination at Any Point Residential: Five foot-candles
5			ii.	Nonresidential: Ten foot-candles
6 7 8		C.	i.	Im Initial Lamp Lumens Residential: 3,500 lumens for five or less parking spaces; 8,500 lumens for six or more spaces.
9 10				Nonresidential: 21,500 lumens; 24,000 lumens for 5 acre or larger parking lots
11 12 13 14		d.	property	er sing lot lighting shall result in spillover lighting on adjacent that exceeds one-tenth foot-candle, measured vertically at at the property line.
15 16 17 18 19 20		e.	All parki security, the facili than a n	of Operation on the minimum necessary for the minimum necessary for shall be extinguished between one hour after the close of ity and one hour before the opening of the facility. No more maximum average of 1.5 foot-candles shall be maintained for purposes.
21 22 23 24 25 26	2.	Lightin a.	Service as define twelve (indirect	vice Canopies ¹¹³ canopy lighting fixtures shall be fully recessed or full cut-off, ed by the IESNA, and the canopy fascia shall extend at least (12) inches below the lowest point of the bulb. However, up light is permitted under a canopy provided that no direct up emitted beyond the canopy.
27 28 29 30		b.	and the	hall not be mounted on the top or sides (fascias) of canopies, sides (fascias) of canopies shall not be externally illuminated, as part of an internally illuminated sign pursuant to section
31 32		C.	Lighting footcand	at ground level under a service canopy shall not exceed 50 dles.
33 34 35 36 37 38 39 40	3.	Building entries facades alternat feasible directed	g façade or speci s is disco ive equiv s, lighting d downwa	lding Façades lighting shall only be used to highlight important building ific architectural features. Uniform floodlighting of building buraged and shall be permitted only by through a variance or valent compliance review process. To the maximum extent fixtures shall be located, aimed and shielded so that light is ard rather than upward, and only onto the building façade. It is shall emit no more than 2,000 lumens.

1 4. Hardscape and Landscape Lighting 2 Light fixtures used to illuminate flags, statues, or any other objects mounted 3 4 5 on a pole, pedestal, or platform shall, to the maximum extent feasible, keep light beams entirely within the mass of the display by using shielding and luminaires with the correct beam spread. Luminaires should be located and 6 aimed so that the source of light cannot be seen directly from any point on the 7 property line. Such light fixtures shall emit no more than 2.000 lumens. 8 **Lighting of Exterior Sports / Performance Facilities** 5. 9 **Dual Lighting System** 10 The main lighting of the event or activity shall be turned off no more 11 than forty-five (45) minutes after the end of the event or activity. A 12 low level lighting system shall be installed to facilitate patrons leaving 13 the facility, cleanup, nighttime maintenance, etc. The low level 14 lighting system shall provide an average horizontal illumination level. 15 at grade level, of no more than 3.0 foot-candles with a uniformity ratio 16 no greater than 10:1. 17 Lighting of Primary Playing or Activity Areas b. 18 Where playing fields, ski slopes, or other special activity areas are to 19 be illuminated, lighting fixtures may include spotlighting and 20 floodlighting. Regardless, all fixtures shall be shielded, mounted, and 21 aimed so that their beams fall within the primary playing area and 22 immediate surroundings, and so that no direct illumination is directed 23 off the site. 24 6. **High Intensity, Special Purpose Lighting** 25 The following lighting systems are prohibited from being installed or used 26 except by special approval by variance, which shall not be granted for any 27 use in LZ-1. 28 a. Aerial Lasers: 29 b. "Searchlight" or beacon style lights; 30 Blinking, flashing, or changing intensity lights except for temporary C. 31 holiday displays; 32 d. Other very intense lighting, defined as having a light source 33 exceeding 200,000 lumens or intensity in any direction of 2,000,000 34 candelas or more. 35 21.07.140 OPERATIONAL STANDARDS¹¹⁴ 36 Α. **Purpose** 37 The purpose of these operational standards is to prevent land or buildings within the 38 Municipality from being used or occupied in any manner so as to create any

dangerous, injurious, noxious, or otherwise objectionable condition that would create

adverse impacts on the residents, employees, or visitors on the property itself or on

nearby properties.

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B. Applicability

The provisions of this section 21.07.140 shall apply to all land within the Municipality. The Director may authorize temporary exemptions from one of more of the standards in this section during construction.

C. Standards

1. Vibration

No vibration shall be produced that is transmitted through the ground and is discernible without the aid of instruments at or at any point beyond the lot line. This standard shall not apply to railroad-related uses.

2. Air Pollution

There shall not be discharged into the atmosphere any contaminant for which threshold limit values are listed for working atmosphere by the American Conference of Governmental Industrial Hygienists in such quantity that the concentration of the contaminant at ground level at any point beyond the boundary of the property shall at any time exceed the threshold limit. Visible emissions of any kind at ground level past the lot line of the property on which the source of the emissions is located are prohibited.

3. Odors

Any condition or operation that results in the creation of odors, vapors, or gaseous emissions of such intensity and character as to be detrimental to the health and welfare of the public or that interferes unreasonably with the comfort of the public shall be removed, stopped, or so modified as to remove the odor.

4. Electromagnetic Radiation

It shall be unlawful to operate, or cause to be operated, any planned or intentional source of electromagnetic radiation for such purposes as communication, experimentation, entertainment, broadcasting, heating, navigation, therapy, vehicle velocity measurement, weather survey, aircraft detection, topographical survey, personal pleasure, or any other use directly or indirectly associated with these purposes that does not comply with the then-current regulations of the Federal Communications Commission regarding such sources of electromagnetic radiation.

5. Fire and Explosion

In all districts in which the storage, use, or manufacture of blasting agent, combustible fibers, combustible liquid, or compressed gas is permitted, the requirements as set forth in the Building and Fire Codes, as adopted in title 23 of the Anchorage Municipal Code, shall be met.

6. Materials and Waste Handling

- a. No person shall cause or permit any materials to be handled, transported, or stored in a manner that allows particulate matter to become airborne or liquid matter to drain onto or into the ground. This provision shall not apply to snow melt and stormwater.
- **b.** All materials or wastes that might cause fumes or dust or that constitute a fire hazard or that may be edible by or otherwise be

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attractive to wildlife or insects shall be stored outdoors only in closed, impermeable trash containers that are screened in accordance with this title. This provision shall not apply to stacks of building materials, such as lumber, otherwise allowed by this title.

c. Toxic and hazardous materials and chemicals shall be stored, secured and maintained so that there is no contamination of ground, air, or water sources at or adjacent to the site. Notwithstanding anything contained herein, all treatment, storage, disposal, or transportation of hazardous waste shall be in conformance with all federal and state statutes, codes, and regulations. Provisions shall be provided so that all lubrication and fuel substances shall be prevented from leaking and/or draining onto the property.

¹ 2005 NOTE: Northern climate design issues are woven throughout many parts of title 21. Examples include the subdivision design standards to ensure solar access, the building design standards regarding roof form and building orientation, and the snow storage provisions in the parking standards. Rather than consolidate such unrelated provisions into one section, we have decided to separate those sections out into the code in the places where they make the most sense. For example, the revised section on commercial building design has a core area of standards that focuses on many aspects of Northern Climate Design. As a result, a separate section addressing this issue is not included in the revised draft.

² NOTE: Suggested new purpose statement.

³ 2005 NOTE: Name of procedure changed from the prior "alternative compliance." The purpose section has been revised to make clear that alternative compliance must be equivalent and is not intended as a substitute for a variance or administrative modification. The list of standards to which the section applies has been expanded. Generally, standards related to site and building design will be eligible for alternative compliance, but not those related to natural resources and the environment. The procedure section has been expanded to clarify the process.

section has been expanded to clarify the process.

4 2005 NOTE: The section on avalanche area protection has been removed at the suggestion of staff. They note that the relevant maps are not current and will not be updated in the near future for funding reasons. Further, existing municipal policies address much of what the draft section intended to accomplish, and the municipality intends to continue implementing such policies.

⁵ NOTE: This section is based loosely on the existing section 21.45.210, *Stream protection setback*. However, we have made major changes, including: a new purpose statement; a new applicability statement; consolidation of standards for wetlands and streams; and increases in the setback requirement from 25 to 50 feet.

⁶ NOTE: Per discussions with staff, we have suggested a new citywide setback requirement of 50 feet, with the current 25 feet standard still applicable in some places (more urban areas). The existing 100-foot setback requirement in the R-10 district is retained.

⁷ 2005 NOTE: This section changed to refer to municipal standards, as opposed to leaving discretion to a "qualified professional," as was done in the previous draft.

⁸ NOTE: The current code splits the stream buffer area into a 15-foot section and a 10-foot section, and specifies allowed uses in each. This suggested new section takes a simpler approach and provides uniform standards for the entire buffer.

⁹ 2005 NOTE: The previous "Municipal Programs" section was obsolete and has been removed. OLD NOTE: This is the current section 21.05.115. We have made no substantive changes yet, though have reorganized the material and added new subheadings. Is this section necessary? We are not sure of its value, given the new uniform wetlands standards we suggest in the previous section. This section appears to make wetlands protection applicable only to public actions by the Municipality -- correct? The new "Stream and Wetlands Protection" section we drafted above is applicable to both public and private actions. Do the A, B, and C designations used here need to be maintained in the code? (Also, we have removed here the provision dealing with the existing reserve tract provisions in the current section 21.80.100, since we received instructions to remove the reserve tract concept entirely from the new subdivision chapter.)

¹⁰ NOTE: This new section is intended to replace the existing sections 21.80.360 (Hillside lots) and 21.80.370 (R-10 District). The existing standards are fairly vague and general.

¹¹ NOTE: This section suggests a common approach that has worked in many other communities with steep slopes, such as Reno; Estes Park, Colorado; Salt Lake County, Utah, etc. For Anchorage, a threshold figure of 20 percent is proposed for discussion purposes. Development is limited on steep slopes over 20 percent and banned on slopes of 30 percent or more. The approach in this draft is a more moderate one; other communities ban development on slopes of 20 percent or more, or limit density on slopes of 20 percent or more.

¹² 2005 NOTE: New subheadings added. OLD NOTE: The following voluntary guidelines are proposed to supplement the mandatory code standards. We recommend placing all guidelines in a separate user's

guide rather than in the code itself. "The following guidelines should be followed by all proposed development on sites where the average slope of the site exceeds 20 percent. Compliance with such quidelines may be considered in development review, but failure to comply with quidelines shall not be independent grounds for denial of development approval.

- Orient roads and building sites to minimize grading.
- Orientation of buildings should consider views from the site as well as the aesthetic impact of b. views of the site from surrounding properties.
- Hilltops, if graded, should be rounded to blend with natural slopes rather than leveled.
- Slopes providing a transition from graded areas into natural areas should be varied in percent grade both up-slope and across the slope, in the undulating pattern of surrounding natural slopes; so that the top or the toe (or both) of the cut or fill slope will vary from a straight line in plan view.
- Parking areas should be constructed on multiple levels and follow natural contours as necessary to minimize cut and fill.
- Roads should follow natural topography to the extent feasible, to minimize cut and fill. Necessary grading should be constant half-cut and half-fill along the length of the road (versus all cut or all fill at points) unless other arrangements would result in less severe alteration of natural terrain.
- Repetitive padding or terracing of a series of lots (stair-stepping up a slope) is discouraged. Creation of a single large pad or terrace (especially creating a single pad or terrace of an entire lot) should be an exception to typical design, to deal with circumstances that cannot be managed with other techniques. Typical design should utilize full split pads (separate level for a down-slope lower story), a split foundation (adapting a single story to a slope), setting the building into a cut in the hillside, or a combination of techniques."
- ¹³ 2005 NOTE: The final two standards are new and suggested by staff.
- ¹⁴ 2005 NOTE: This is an entirely new subsection intended to reconcile the various conflicting comments received on the prior draft standards.
- ¹⁵ NOTE: New section.
- ¹⁶ 2005 NOTE: These are suggested new percentages. The threshold for residential development has been raised (i.e., the number of developments that will be meet the requirement is smaller). The industrial requirement has been deleted. At workshops in December 2004, representatives of the development community indicated that a total open space set-aside requirement for residential of 10 acres/1000 residents seemed reasonable.
- 2005 NOTE: This is a suggested new section in the 2005 draft. If the concept is endorsed, then additional specificity is necessary to define "designated infill and redevelopment areas" and the quantity of such amenities that will be required.
- 2005 NOTE: PM&E is working on a new ordinance to address these issues, and it should come up for review sometime in late spring or summer 2005.
- ¹⁹ NOTE: Existing 21.90.020. Some sections rewritten for clarity.
- ²⁰ NOTE: Carried forward from existing 21.90.050. Further discussion needed. Is this policy still in place
- -- the standard nonconformity provisions do not apply?
 21 2005 NOTE: The revisions in this and subsequent subsections reflect amendments adopted by the Assembly in AO No. 2005-2. ²² 2005 NOTE: To replace the more rigid standards in the initial draft regarding connectivity, cul-de-sacs,
- and related issues, staff has suggested adopting a more flexible approach known as a connectivity index. which has been used in other communities such as Cary, North Carolina, and Rock Hill, South Carolina. The index affords developers significant flexibility in laying out streets, connections, and cul-de-sacs in a development if a certain overall level of connectivity is achieved, which is based on a numerical index. Staff has tested the index on several existing developments and believes it is workable in Anchorage. ²³ 2005 NOTE: The exemption in steep-slope areas is new in this 2005 draft.
- NOTE: A suggested new section emphasizing the types of conditions that may be placed on development approvals to minimize impacts on adjacent neighborhoods. This authorization, in combination with the wide variety of new development standards in this chapter, provide significantly more protection for neighborhoods than exists in the current code.

²⁵ 2005 NOTE: One member of the Assembly has raised the issue whether the Urban Design Commission, which will be reviewing major site plans, should have the authority to impose neighborhood protection standards. Needs further discussion. ²⁶ 2005 NOTE: This subsection C. is new in the 2005 draft. The prior subsection C. (dealing with

setbacks) has been deleted because it repeated a standard contained in the new chapter 21.07. ²⁷ 2005 NOTE: NOTE: This is a substantially new landscaping section, based on the recommendations of the 1998 draft Landscape Ordinance project, other 1995-2003 audits, and staff experience with landscaping in Anchorage.

²⁸ 2005 NOTE: This subsection about Landscape Plan submittal requirements appeared at the very end of the section in the previous draft. It has been moved to the front of the landscaping section for clarity. Its content is unchanged from the previous draft. The list of submittal requirements from the current adopted code are removed, for placement in the Title 21 user's guide.

²⁹ 2005 NOTE: The Planning Department has proposed this system, based on the 1998 draft landscaping ordinance and their experience with local landscaping conditions in Anchorage, with revisions based on public comments from the previous public draft.

2005 NOTE: The June 2005 draft landscaping section includes parking lot landscaping, which appeared under the off-street parking section in the previous draft. Tree retention, which also appeared under a separate section in the previous draft, is now incorporated into the landscaping section and substantially revised in response to public comment.

312005 NOTE: The content for this landscaping category has been clarified and streamlined from the

previous draft.

2005 NOTE: The June 2005 draft introduces a new lowest and least stringent level of perimeter landscaping. This level, called "Edge Treatment", provides a tool for situations when a greater landscape buffer does not appear warranted. Level 2 site perimeter landscaping is carried forward from the previous (2004) draft. It replaces existing adopted title 21 street frontage landscaping categories, and provides a low-level buffer between certain uses. Level 3 provides greater buffering and separations. Level 4 screening applies the existing adopted title 21 highway screening landscaping as the most intensive type of site perimeter landscaping.

33 NOTE: Clarion has alimine.

NOTE: Clarion has eliminated a proposed exception here for small real estate signs; sign regulations should not be content-based.

2005 NOTE: This language is a modified version of the existing adopted title 21 standard for highway screening landscaping.

³⁵ 2005 NOTE: Parking lot landscaping standards appeared in the off-street parking section of the previous draft. Parking lot landscaping is now incorporated into the landscaping section, appearing with the other landscaping categories. Planning Department staff has revised its content to make it consistent with the format of the rest of the landscaping section.

Need to discuss issue of bringing non-conforming lots into conformity with these new NOTE: standards.

NOTE: Rather than require that lots be broken up into parking blocks with a specified maximum number of spaces, we have indicated preferred locations. The parking block concept works well in climates with less snow, but we feel may significantly inhibit snow removal.

³⁸ 2005 NOTE: In response to public comment and testing of the previous draft, tree retention standards have been substantially revised and incorporated into the landscaping section. The landscaping section provides greater incentive for tree preservation, while allowing for tree replacement (new planting) as an option.

NOTE: Most of the material in this section is new.

⁴⁰ NOTE: The Planning Department is arranging with the local chapter of the Association of Landscape Architects and local arborists to update the master plant list concurrent with the code rewrite. Among other features, it is intended to identify which plants are drought tolerant, and should identify which provide winter color.

NOTE: From 1998 draft ordinance. For public discussion.

⁴² NOTE: Anchorage has a serious problem with overlapping landscaping and utility easements in Anchorage, in part because utility easements tend to be on site and not in public ROW.

⁴³ NOTE. This provision has been revised to replace the 18-month installation period with a requirement that landscaping be installed early in the next growing season. An alternative approach would be to provide that no final certificate of occupancy may be issued until required landscaping has been installed.

44 NOTE: This broad maintenance.

NOTE: This broad maintenance requirement may be moved to the general landscaping or enforcement sections with a cross-reference here.

45 NOTE: The material in this section is new. The existing screening provisions were better suited to

buffering purposes, and the current code does not include effective techniques to block the view of specific areas such as refuse collection areas, rather than a site in general.

NOTE: The proliferation of unscreened dumpsters has been identified in the Diagnosis and in discussions with city leaders as a major concern. The general idea of an amortization provision for dumpsters has been discussed and endorsed in concept by the Assembly, though the specific time frame requires further discussion. Note that the provision does not amortize the dumpsters themselves necessarily, just their screening and location.

2005 NOTE: Several citizens and organizations provided comments regarding the roof and wallmounted mechanical equipment screening requirements in the previous draft. Rather than propose changes in this particular draft, Planning Department will consult further with these citizens and organizations, and provide improved draft content in the next iteration draft which reflects further discussion and consultation with the community.

⁴⁸ 2005 NOTE: See previous note.

⁴⁹ 2005 NOTE: Proposed new content to begin community discussion regarding ground-mounted mechanical equipment. This subsection was an empty placeholder in the previous draft.

⁵⁰ NOTE: Staff intends to define this use as both an accessory and primary use type in the new title 21, and so proposes to address its screening requirements in Ch. 21.05.

51 NOTE: Staff intends to define this use as both an accessory and primary use type in the new title 21,

and so proposes to address its screening requirements in Ch. 21.05.

NOTE: Much of this material is new, but it incorporates the standards in section 21.45.110 (Fences) of

the current code.

⁵³ NOTE: This section contains a comprehensive rewrite of the Anchorage parking standards. This draft section was prepared as part of a separate project overseen by the Anchorage Traffic Department. Key new features include a complete new table of off-street parking ratios, a new emphasis on alternative parking arrangements, and a new set of parking lot design standards.

NOTE: The existing section 21.45.080.A.5 regarding the procedure to reduce parking requirements for additions, enlargements, and changes in occupancy has been moved to the last part of this parking section -- *Modifications*. See discussion there regarding current procedures and suggested alternatives.

55 NOTE: This is ovieting active 24 (7.000 minus).

NOTE: This is existing section 21.45.080.W.5 with revisions. As discussed in the diagnosis, this section has been moved out of the design portion so that it will clarify that control of use is generally applicable to both new and existing parking areas. Other issues that might be addressed in this section are derelict/inoperable vehicle storage and use of surplus parking for other uses.

⁵⁶ NOTE: The size trigger for parking lot plans is subject to further discussion. Some jurisdictions require for all; others require only for larger lots.

57 NOTE: This section contains existing information regarding parking requirements put into table format.

Existing requirements have been reviewed, compared to other standards around the nation, and modified as necessary. Additional requirements have been added for uses that were not previously addressed in the existing code. The Institute for Traffic Engineers will release a new edition of their Parking Manual in early 2004, and we recommend reviewing their new standards at that time.

⁵⁸ NOTE: Staff feedback indicates that drive-through uses will be considered "accessory uses." Table 21.07-1 Schedule A currently only lists principal uses, based on the revised principal use table contained in revised chapter 21.05 Use Regulations. If a principal use may have a drive-through as an accessory use, that has been noted along with a reference to vehicle stacking requirements.

⁶⁰ NOTE: Requirements noted in the literature vary widely for this use; staff should review based on use in Anchorage.

⁶² NOTE: Requirements noted in the literature vary widely for this use; staff should review based on use in Anchorage.

⁶³ NOTE: Highlighted text has been added to text from the recent ordinance for clarification.

⁶⁴ Note: This is a new section to address multiple activities on one site.

⁶⁵ NOTE: This is a new section to provide for uses whose parking requirements may vary widely.

⁶⁶ NOTE: This section contains revised shared/joint parking regulations and new sections on off-site parking and other alternative parking topics.

NOTE: This is existing section 21.45.080.W.3 "Joint Use" with revisions highlighted.

⁶⁸ NOTE: The intent of this requirement is to ensure that shared parking is not sited on more sensitive sites (e.g., residential areas).

⁶⁹ NOTE: This section is new.

⁷⁰ NOTE: This is the existing section 21.45.090. It has been moved into this combined section on parking and loading.

NOTE: This category has been added to this table and the requirements for general commercial uses have been used as a starting point.

⁷² NOTE: If any accessory uses have their own, additional parking requirements, those requirements are set forth in the accessory use regulations in chapter 21.05.

NOTE: There were comments that Anchorage has a significant percentage of trucks and larger vehicles and that this should be considered. National research about SUV parking indicates that parking spaces 8 feet, 6 inches wide and 18 feet long will accommodate the average SUV but door maneuvers are "less comfortable," there is a smaller margin of error for the driver, and sight distance (which is already inadequate for smaller vehicles) is more restricted. The City of Detroit recently chose to require minimum stall dimensions of 9 feet wide and 20 feet long to accommodate larger American vehicles throughout the city. Anchorage's primary stall dimensions start at a width of 9 feet and therefore may be adequate for larger vehicles. Per staff direction, we have eliminated the existing provisions for compact spaces. However, we heard conflicting advice on this issue from different staff departments, and we note that always requiring larger spaces will increase the overall size of parking lots, which may be contrary to other 2020 Plan goals.

⁷⁴ NOTE: The illustration from the current regulations (section 21.45.080.W.9.) is inserted here for now.

This illustration will be updated for the final product.

This illustration will be updated for the final product.

To NOTE: This duplicates a standard in the current draft of 21.05, Use Regulations. We recommend the standard should be carried forward as part of the parking regulations rather than the use regulations.

NOTE: Subsection 2.a. "General" is carried over from existing section 21.45.080.W.1. The other

subsections are new.

77 NOTE: This is a mix of new and existing requirements.

⁷⁸ 2005 NOTE: Still researching this issue, but plan to suggest accommodations for heated, textured, or covered surfaces.

⁷⁹ NOTE: Should move to general standards. Discuss issue of motorcycle parking.

NOTE: Item 1 is carried over from existing section 21.45.080.W.4.j. Items 2 and 3 are new.

⁸¹ NOTE: Most of the material in this section is pulled forward from the existing section 21.45.080.W.8; a general statement and residential requirements have been added. Titles have been added to clarify topics in this section.

NOTE: The existing code contains a reference to the ADA text regarding accessible routes. This section contains relevant information from that section of the ADA text for ease of reference for the user.
83 NOTE: This subsection is carried over from existing section 21.45.080.Y.

⁵⁹ NOTE: Requirements noted in the literature vary widely for this use; staff should review based on use in Anchorage.

NOTE: Requirements noted in the literature vary widely for most of these cultural facility uses, especially for library, museum, and planetarium uses. For example, library parking requirements were found to vary from 1 per 250 to 1 per 1000 sf gfa. Staff should review based on use in Anchorage.

⁸⁴ NOTE: This is a new proposed section that replaces existing sections related to modifications to parking requirements. As recommended in the interim report, this is a streamlined option that simply references the minor modifications procedure in chapter 21.03. As part of edits to Module 1, we will ensure that the Traffic Engineer is given the authority to make such modifications. Also need to address in this section: Need to discuss requiring conformity with landscaping and lighting provisions within 5-10 years for nonconforming lots.

NOTE: This section incorporates a number of proposed new residential building standards, many of which have been suggested by staff.

86 2005 NOTE: Section changed in the 2005 draft. Additional edits by staff following Clarion revisions.

⁸⁷ 2005 NOTE: Extensive changes are suggested to these garage standards, based on the December 2004 workshop, staff suggestions, and numerous other comments received. The size requirements for garage doors have been relaxed, and there is a larger menu of tools to use to minimize the visual impact of garage doors.

2005 NOTE: This is a new subsection in the 2005 draft.

⁸⁹ 2005 NOTE: Several changes have been made to this section in the 2005 draft. The applicability section is new. The number of units allowed in a single row in subsection 3, has been increased from six to eight. The section on entryway treatment is new. The garage section has been rewritten.

2005 NOTE: There are a number of suggested changes in this 2005 draft to this section. These standards now apply just to multi-family residential of four or fewer stories; larger buildings must comply with the public/institutional standards in the following section. Other specific changes are noted in the section.

2005 NOTE: These are new standards in the 2005 draft. We have not added the standard suggested by staff regarding buffering around parking lots—this is specifically addressed in the proposed parking lot landscaping section.

2005 NOTE: The menu of tools in this section has been lengthened. Three tools are required instead of two, but the façade length requirement, which was mandatory in the prior draft, is now one of the options.

2005 NOTE: This is a new subsection in the 2005 draft.

⁹⁴ 2005 NOTE: New section in the 2005 draft.

⁹⁵ NOTE: Staff has proposed density bonuses as incentives for developing underground parking garages. Further discussion needed. The idea is a good one, but some research would be necessary to determine the appropriate level of bonus that might be necessary in Anchorage to offset the additional cost of providing such parking.

2005 NOTE: This section has been significantly revised, as noted below. The exemption for specialpurpose buildings such as airports is new. OLD NOTE: Suggested new standards. Again, the approach is quite simple and is designed to be both easy to administer and politically palatable, yet also substantive enough to get at some of the key design issues in Anchorage. Menus of standards are offered for purposes of flexibility. Many of these standards were originally considered as part of the draft Retail Design Standards Manual. However, material from that draft manual has been heavily edited and supplemented based on staff suggestions.

2005 NOTE: To staff: We have extracted several optional standards from the four core areas and kept them mandatory (weather protection, height transitions, snow storage). We feel strongly that these are design elements that should not be optional because of public safety or neighborhood protection reasons.

⁹⁸ 2005 NOTE: This is a substantially different approach from the earlier draft. Instead of setting out a list of required standards, the draft allows applicants to choose options from a set of four core areas. We recommend that applicants be required to satisfy at least TWO standards in each core area to prevent "shopping" for the weakest standard in each area—which has been the experience with other "point" systems like this.

2005 NOTE: In a similar fashion to the Public/Institutional and Commercial Building Standards, the draft allows applicants to choose options from a set of six core areas. A few important standards have remained as mandatory requirements. NOTE: This section drafted by staff, based on work done with another consultant on the Retail Design Standards Manual.

NOTE: This section drafted by staff. Parking lot lighting is exempt from the requirements of this section and instead has to comply with separate lighting requirements in the parking section.

NOTE: Intro paragraph is based in part on IESNA RP 33-99, as well as northern city design considerations. Bulleted specific purpose statements follow the format of other chapter 7 sections in identifying specific issue areas of concern. Primary issues in Anchorage appear to be: safety and visual acuity, glare and misdirected light, and excessive illumination for some uses.

NOTE: Low-intensity lighting for single-family and other residential uses is exempted in subsection C which follows. The lighting standards would only limit very bright or glaring lights in residential areas. It is intended to protect neighborhoods, homeowners, or residents in cases of unusually intense or glaring lights on neighboring properties.

NOTE: This exemption is for single-family and other residential development with low impact lighting. The lumens figure provided is approximately the output of a 75 watt incandescent bulb. The provision would exempt a 60 watt incandescent bulb, for example. It is intended as a starting point for discussion on the most appropriate wattage or brightness level to be exempted.

¹⁰⁴ NOTE: This exemption allows for holiday season and "City of Lights" style decorative wintertime illumination. The lumens figure provided exempts typical hanging decorative lights consisting of 10 watt or even 15 watt incandescent bulbs.

¹⁰⁵ NOTE: Staff recommends amortizing lighting. A grace period for all old and new lighting is suggested as a starting point for community discussion. The issue of concern is that a lighting fixture can last for decades. There are numerous examples of old and fading mercury vapor parking lot lighting still in use around the community, as well as barnyard style non cut-off lights from the 1970s.

¹⁰⁶ NOTE: Public safety and convenience are community priorities in Anchorage. This section establishes the need for adequate lighting which avoids disability glare. It is intended to be further developed pending community review and discussion.

NOTE: Uniformity ratio recommended by IESNA RP-33-99 as a starting point for public discussion.

¹⁰⁸ NOTE: NEMA recommends basing standards on a performance standard such as CRI, rather than just a list of product types. This better accommodates new technology such as LED or induction lamps. Need to define "area lighting" to carefully exempt aesthetic hardscape, façade or landscape lighting.

109 NOTE: IESNA RP 33-99 recommends ordinance provisions for maintenance, repair, and replacement.

This would address safety and maintenance issues that exist in Anchorage.

NOTE: Suggested new section for glare control applicable to all lighting. This approach eliminates the need to provide glare control provisions for each type of lighting—parking, building, etc. It also eliminates potential loopholes in the code for light intensive uses like car sales lots.

Suggested maximum light trespass figures in Table 3 are suggested by the IESNA as a starting point for community discussion for community lighting ordinances.

¹¹² NOTE: IESNA suggests lowering lighting levels. NEMA suggests lowering lighting levels only in certain areas.

¹¹³ NOTE: Need to move gas station canopy standards from 21.05.050.L.2.b.i.(B) here to be generally applicable, and consolidate it with canopy lighting provisions.

NOTE: Suggested new section. These are relatively simple performance standards intended help protect adjacent properties from the impacts of intensive uses.