

## TABLE OF CONTENTS

1		
2		
3	<b>CHAPTER 21.07: DEVELOPMENT AND DESIGN STANDARDS</b>	<b>4</b>
4	<b>21.07.010 General Provisions</b>	<b>4</b>
5	A. Purpose	4
6	B. Buildings to Have Access	4
7	C. Addresses	5
8	D. Alternative Equivalent Compliance	5
9	<b>21.07.020 Natural Resource Protection</b>	<b>6</b>
10	A. Purpose	6
11	B. Stream, Water Body, and Wetland Protection	6
12	C. Steep Slope Development	12
13	D. Wildlife Conflict Prevention Areas	19
14	<b>21.07.030 Private Open Space</b>	<b>20</b>
15	A. Purpose	20
16	B. Applicability Private Open Space	21
17	C. Standards	22
18	<b>21.07.040 Drainage, Storm Water Treatment Runoff, Erosion Control, and Prohibited Discharges</b>	<b>24</b>
19	A. Purpose	24
20	B. Relationship to Chapter 21.12, Nonconformities	25
21	C. Guidance Documents	25
22	D. Drainage	25
23	E. Storm Water Treatment and Erosion and Sediment Control	26
24	F. Prohibited Discharges	31
25	G. Hazardous Sites	32
26	H. Violations and Penalties	32
27	I. Appeals	33
28	<b>21.07.050 Utility Distribution Facilities</b>	<b>33</b>
29	A. Underground Placement Required for New or Relocated Lines	33
30	B. Exceptions	33
31	C. Variances	34
32	D. Relationship to Chapter 21.12, Nonconformities	35
33	E. Designation of Target Areas	35
34	F. Nonconforming Overhead Lines	36
35	G. Lines in Municipal Right-of-Way	37
36	H. Conversion of Service Connections	38
37	<b>21.07.060 Transportation and Connectivity</b>	<b>38</b>
38	A. Purpose	38
39	B. Applicability	38
40	C. Traffic Impact Mitigation	38
41	D. Streets and On-Site Vehicular Circulation	39
42	E. Standards for Pedestrian Facilities	42
43	F. Pedestrian Amenities	44
44	<b>21.07.070 Neighborhood Protection Standards</b>	<b>50</b>
45	A. Purpose and Relationship to Other Requirements	50
46	B. Nonresidential Development Adjacent to Existing Residential Use	50
47	C. Residential Development Adjacent To Existing Nonresidential Use	51
48	Height Transitions for Neighborhood Compatibility (moved to 21.06)	50
49	<b>21.07.080 Landscaping, Screening, and Fences</b>	<b>51</b>
50	A. Purpose	51
51	B. Exemption for Temporary Uses Applicability	52
52	C. Landscaping Plan	52
53	D. Alternative Equivalent Compliance	52
54	E. Cross-reference to Other Requirements	53
55		

1	F. Landscaping .....	53
2	G. General Landscaping Requirements and Standards .....	65
3	H. Screening.....	69
4	I. Fences.....	72
5	<b>21.07.090 Off-Street Parking and Loading.....</b>	<b>73</b>
6	A. Purpose .....	73
7	B. Applicability.....	73
8	C. Computation of Parking and Loading Requirements .....	75
9	D. Parking Lot Layout and Design Plan.....	76
10	E. Off-Street Parking Requirements .....	76
11	F. Parking <b>Reductions and</b> Alternatives .....	89
12	G. Off-Street Loading Requirements.....	98
13	H. Parking <b>and Loading Facility</b> Lot Design Standards .....	101
14	I. Passenger <b>Loading Zones</b> Drop-Off Areas .....	111
15	J. Accessible Parking <b>Spaces</b> Requirements.....	111
16	K. Bicycle <b>Parking Spaces</b> Racks.....	114
17	L. Vehicle <b>Queueing</b> Stacking Spaces .....	114
18	M. Parking Structures <b>Design Standards</b> .....	115
19	<del>N. Modification of Parking Requirements.....</del>	<del>118</del>
20	<b>21.07.100 Residential Design Standards .....</b>	<b>118</b>
21	A. Purpose .....	118
22	B. Alternative Equivalent Compliance.....	118
23	C. Prohibited Structures.....	118
24	<b>D. Driveway Width</b> .....	118
25	E. Standards for Single-Family and Two-Family Residential Dwellings.....	119
26	F. Standards for Townhouse Residential .....	122
27	G. Standards for Multifamily Residential ( <del>Four or Fewer Stories</del> ).....	123
28	<del>H. Standards for Multifamily Residential (More Than Five Stories)</del> .....	<del>130</del>
29	<b>21.07.110 Public/ Institutional and Commercial Design Standards.....</b>	<b>130</b>
30	A. Purpose .....	130
31	B. Applicability.....	131
32	C. Alternative Equivalent Compliance.....	131
33	D. <b>Prohibitions and Requirements</b> <del>Prohibited Structures</del> .....	131
34	E. Menu of Design Choices .....	131
35	<b>21.07.120 Large Commercial Establishments.....</b>	<b>140</b>
36	A. Purpose .....	140
37	B. Applicability.....	140
38	C. Relationship to Other Standards .....	141
39	D. Alternative Equivalent Compliance.....	141
40	E. Mandatory Standards .....	141
41	F. Optional Standards Menu.....	144
42	<b>21.07.130 Exterior Lighting .....</b>	<b>145</b>
43	<b>A. Purpose</b> .....	145
44	<b>B. Applicability</b> .....	145
45	<b>C. Exempt Lighting</b> .....	145
46	<b>D. Site Lighting Plan</b> .....	146
47	<b>E. Lighting Zones Established</b> .....	146
48	<b>F. General Lighting Standards</b> .....	147
49	<b>G. Requirements for Multifamily Residential and Nonresidential Outdoor Lighting</b> .....	148
50	<b>H. Reduced Lighting Period</b> .....	151
51	<b>I. Installation of Lighting</b> .....	152
52	<b>J. Special Purpose Lighting</b> .....	152
53	<b>21.07.140 Operational Standards .....</b>	<b>153</b>
54	A. Purpose .....	153
55	B. Applicability.....	153
56	C. Standard.....	153



# CHAPTER 21.07: DEVELOPMENT AND DESIGN STANDARDS

## 21.07.010 GENERAL PROVISIONS

### A. Purpose

The development and design standards set forth in this chapter shall apply to the physical layout and design of development in the municipality. These provisions address the physical relationship between development and adjacent properties, public streets, neighborhoods, and the natural environment, in order to implement the comprehensive plan vision for a more attractive, efficient, and livable community. The specific purposes of this chapter include:

1. To encourage the proper use of the land by promoting an appropriate balance between the built environment and the preservation and protection of open space and natural resources;
2. To protect public and private investment through preservation of open spaces, protection of natural resources including existing trees, providing buffers between incompatible uses and along roadways, and encouraging the planting of new trees and vegetation as deemed appropriate;
3. To promote sound management of water quality and quantity through preservation of natural areas and their functions and by encouraging soil management and the use of native plant materials;
4. To provide appropriate standards to ensure a high quality appearance for the municipality and promote good design while also allowing flexibility, individuality, creativity, and artistic expression;
5. To provide development and design standards that address and are tailored to the municipality's northern climate and winter city character;
6. To strengthen and protect the image, identity, and unique character of the municipality and thereby to enhance its business economy;
7. To protect and enhance residential neighborhoods, commercial districts, and other areas by encouraging physical development that is of high quality and is compatible with the character, scale, and function of ~~the its~~ surrounding area;
8. To encourage developments that relate to adjoining public streets, open spaces, and neighborhoods with building orientation and physical connections that contribute to the surrounding network of streets, walkways, and trails; and
9. To provide road connectivity for the safe and efficient movement of people, goods, and services.

### B. Buildings to Have Access

Every building shall be on a lot abutting on a constructed public street with principal access to such street, or with access to a constructed private street approved by the fire department, project management and engineering department, development services department, traffic department, and planning department. This standard may be waived by approval of the municipal engineer, traffic engineer, and the director.

1 **C. Addresses**

2 **It is the responsibility of the property owner to affix street address numbers assigned by the**  
3 **municipality to the affected building(s) or on another structure (natural or otherwise) nearer to the**  
4 **street, to be plainly visible and legible from the street named in the address. Sub-addresses must**  
5 **also be visible when approaching the building and on each applicable entrance.**

6 **D. Alternative Equivalent Compliance**

7 **1. Purpose**

8 Alternative equivalent compliance is a procedure that allows development to meet the  
9 intent of the design-related provisions of this chapter through an alternative design. It is  
10 not a general waiver or weakening of regulations. Rather, the procedure permits a site-  
11 specific plan that is equal to or better than the strict application of a design standard  
12 specified in this title. This procedure is not intended as a substitute for a variance or  
13 administrative modification or as a vehicle for relief from standards in this chapter.

14 **2. Applicability**

15 The alternative equivalent compliance procedure shall be available only for the following  
16 sections of this chapter:

- 17 **a.** Section 21.07.060, *Transportation and Connectivity*;
- 18 **b.** Section 21.07.080, *Landscaping, Screening and Fencing*;
- 19 **c.** Section 21.07.090, *Off-Street Parking and Loading*;
- 20 **d.** Section 21.07.100, *Residential Design Standards*;
- 21 **e.** Section 21.07.110, *Public/Institutional and Commercial Design Standards*;
- 22 **f.** Section 21.07.120, *Large Commercial Establishments*; and
- 23 **g.** Section 21.07.130, *Exterior Lighting*.

24 **3. Pre-Application Conference Required**

25 An applicant proposing to use alternative equivalent compliance under this section shall  
26 request and attend a pre-application conference prior to submitting the site plan for the  
27 development, to determine the preliminary response from the director. Based on that  
28 response, the site plan application shall include sufficient explanation and justification, in  
29 both written and graphic form, for the alternative compliance requested.

30 **4. Decision-Making Responsibility**

31 Final approval of alternative equivalent compliance under this section shall be the  
32 responsibility of the decision-making body responsible for deciding upon the application.  
33 For example, proposed alternative equivalent compliance on a major site plan application  
34 shall be considered and decided upon by the urban design commission. By-right projects  
35 that would not ordinarily require review under this title, yet which are proposing  
36 alternative equivalent compliance, shall receive written approval of the alternative  
37 equivalent compliance from the director.

38 **5. Criteria**

39 To grant a request for alternative equivalent compliance, the decision-making body shall  
40 find that the following criteria are met:

- 1           a.     The proposed alternative design achieves the intent of the subject design  
2           standard to the same or better degree than the subject standard.
- 3           b.     The proposed alternative design achieves the goals and policies of the  
4           comprehensive plan to the same or better degree than the subject standard.
- 5           c.     The proposed alternative design results in benefits to the community that are  
6           equivalent to or better than compliance with the subject design standard.
- 7           **6.     Effect of Approval**  
8           Alternative compliance shall apply only to the specific site for which it is requested and  
9           does not establish a precedent for assured approval of other requests.

10 **21.07.020     NATURAL RESOURCE PROTECTION**

11 **A.     Purpose**

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

19 **B.     Stream, Water Body, and Wetland Protection**

20           **1.     Purpose**

21           The following requirements are intended to promote, preserve, and enhance the  
22           important hydrologic, biological, ecological, aesthetic, recreational, and educational  
23           functions provided by stream ~~and river~~ corridors, associated riparian areas, water bodies,  
24           and wetlands, **particularly by minimizing impervious surface and by reducing erosion and**  
25           **the contamination of streams, wetlands, and water bodies by pollutants.**

26           **2.     Applicability**

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

29           ~~Development on lots of record that were approved for single-family residential use prior to~~  
30           ~~the effective date of this title, which shall remain subject to applicable setback regulations~~  
31           ~~in effect prior to adoption of this title;~~

- 32           a.     Maintenance and repair of existing public roads, utilities, and other public  
33           facilities within an existing right-of-way or easement, **or otherwise within a**  
34           **setback;**
- 35           b.     Flood prevention or rehabilitation work carried out by a government agency or  
36           approved by a government agency;
- 37           c.     Maintenance and repair of flood control structures and activities in response to a  
38           flood emergency; and
- 39           d.     Wetland, **stream channel,** and wildlife habitat restoration, construction, and/or  
40           enhancement that improves or restores the wetland or stream corridor functions,

1 provided that the proposed activity is approved by the appropriate agency such  
2 as the U.S. Corps of Engineers or the Alaska department of fish and game.

3 **3. Relationship to Other Regulations**

- 4 a. This subsection 21.07.020B. does not repeal or supersede any existing federal,  
5 state, or local laws, easements, covenants, or deed restrictions. When this  
6 subsection imposes a higher or more restrictive standard than found in another  
7 applicable ordinance, statute, or regulation, this subsection shall apply.
- 8 b. No person shall engage in any activity that will disturb, remove, drain, fill, dredge,  
9 clear, destroy, or alter any area, including vegetation, within a wetland that falls in  
10 the jurisdiction of the federal government and its agencies, except as may be  
11 expressly allowed under a permit issued by the appropriate federal agency.
- 12 c. The decision-making body shall not grant preliminary or final approval to any  
13 development or activity, including subdivisions, in a wetland that falls within the  
14 federal government's jurisdiction until all necessary federal approvals and  
15 permits have been obtained.

16 **4. Buffer/Setback Requirements**

17 a. ~~Streams or River Corridors~~

18 In the RL-4 district, all buildings, accessory structures, and parking lots shall be  
19 set back at least 100 feet horizontally from the ordinary high water mark of  
20 stream or river corridors or, if not readily discernible, from the defined bank of the  
21 stream or river. Except as provided in 6. below, no disturbance is permitted in  
22 the 100-foot setback area. Development in the RL-4 district also is subject to the  
23 district-specific development standards in section 21.04.020K.

- 24 i. In all the RL-1, RL-2, RL-3, IC, I-1, and I-2 zoning districts, all buildings,  
25 accessory structures, and parking lots shall be set back at least 50 feet  
26 horizontally from the ordinary high-water mark on each side of stream ~~or~~  
27 ~~river~~ corridors or, if not readily discernible, from each side of the defined  
28 bank of the stream ~~or river~~. Except as provided in B.6. below, no  
29 disturbance is permitted in the 50-foot setback area.
- 30 ii. In all zoning districts, buildings, accessory structures, and parking lots  
31 shall be set back at least 10 feet horizontally from the edge of each side  
32 of drainageways and ephemeral streams defined or verified by  
33 watershed management services division staff. Except as provided in  
34 B.6. below, no disturbance is permitted in the 10-foot setback area. ~~For~~  
35 ~~all zoning districts not listed in subsections a.i. and ii. above, all~~  
36 ~~buildings, accessory structures, and parking lots shall be set back at~~  
37 ~~least 25 feet horizontally from the high-water mark of stream or river~~  
38 ~~corridors or, if not readily discernible, from the defined bank of the~~  
39 ~~stream or river. Except as provided in B.6. below, no disturbance is~~  
40 ~~permitted in the 25-foot setback area.~~
- 41 iii. Segments of streams or tributaries that are contained underground in  
42 pipes or in culverts have no setback for a contiguous length of 100 feet  
43 ~~or more are not regulated by this subsection.~~

44 ~~Setbacks required in this subsection shall extend the specified distance from~~  
45 ~~both sides of the stream or river.~~

- 1                   iv.     For parcels where there are wetlands contiguous with a stream, setback  
2                   requirements are listed in table 2 of the *Anchorage Wetlands*  
3                   *Management Plan*.
- 4                   b.     **Wetlands**
- 5                   i.     To the maximum extent feasible, class A and those class B wetlands  
6                   which, as a result of a U.S. Corps of Engineers **decision or permit**  
7                   **condition permitting**, are not authorized for development, shall be **platted**  
8                   **into separate tracts** ~~tracted out~~ and ~~thus~~ not included as part of a  
9                   development lot. Wetland classes are defined and delineated in the  
10                  *Anchorage Wetlands Management Plan*.
- 11                  ii.    Except as provided in B.6. below, all buildings, accessory structures, fills  
12                  and other storage of materials, and parking lots shall be set back at least  
13                  15 feet horizontally from the delineated edge of all class A wetlands, and  
14                  all portions of class B and C wetlands not authorized for development; no  
15                  disturbance is permitted in the 15-foot setback area.
- 16                  c.     **Water Bodies**
- 17                  In all districts, ~~all~~ buildings, accessory structures, and parking lots shall be set  
18                  back at least 15 feet horizontally from the edge of water bodies. **Within each lot,**  
19                  **50% of the width of the setback area (measured between the lot lines that are**  
20                  **perpendicular to the water body) shall remain undisturbed, in one or two**  
21                  **contiguous areas. The other 50% may be cleared of vegetation to within two feet**  
22                  **of the ground, but the vegetative mat shall not be disturbed, except for access to**  
23                  **those uses** ~~Except as allowed in B.6. below, no disturbance is permitted in the~~  
24                  ~~15-foot setback area. Uses such as docks, boathouses, and floatplane storage~~  
25                  ~~sheds (and access thereto) that require direct access to a water body by their~~  
26                  ~~very nature or function shall be exempted from this setback requirement.~~
- 27                  d.     **Credit for Other Requirements of this Title**
- 28                  Stream corridor, water body, and wetland setback areas shall be credited toward  
29                  any applicable private open space requirements or landscaping requirements  
30                  only if such setback areas serve the purposes of those requirements as set forth  
31                  in this title.
- 32                  5.     **Boundary Delineation**
- 33                  a.     **Official Definitions and Standards**
- 34                  i.     In cases where stream channels or water bodies are not mapped and  
35                  recorded in official plans or other documents, delineation of such  
36                  features shall be made according to the ~~municipal~~ watershed  
37                  management services division's **procedures** ~~definitions and standards,~~  
38                  and **shall** ~~may~~ be subject to formal verification by the watershed  
39                  management services division.
- 40                  ii.    In cases where wetlands are not mapped and recorded in official plans  
41                  or other documents, including the *Anchorage Wetlands Management*  
42                  *Plan*, delineation of such features shall be performed using procedures  
43                  as described by the U.S. Corps of Engineers. Delineations shall be  
44                  subject to formal verification by the department and/or the U.S. Corps of  
45                  Engineers.
- 46                  b.     **Stream ~~and River~~ Corridor Boundaries**



1 Stream and river corridors shall be delineated at the ordinary high-water mark or,  
2 if not readily discernible, the defined bank of the stream or river, as those terms  
3 are defined in chapter 21.14. The municipal watershed management services  
4 division shall maintain the official record of all stream and river corridor  
5 boundaries.

6 **c. Wetland Boundaries**

7 **i. Mapped Wetlands**

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

14 **ii. Unmapped Wetlands**

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

21 **6. Development Standards**

22 **a. Permitted Activities**

23 **i.** With the appropriate permits, maintenance, including placement of  
24 riprap, debris removal, glaciation control, sediment removal, protection of  
25 adjacent or downstream property from flooding, soil stabilization, and  
26 erosion control, may be performed within the setbacks described in B.4.  
27 above.

28 **ii.** The following structures and uses of land or structures are permitted  
29 generally perpendicular to the setback or stream edge within the closest  
30 35 feet of the stream, and within the drainageway, ephemeral stream,  
31 wetland, and water body setback, where it is necessary in order to cross  
32 or enter the feature:

33 **(A)** Roads, driveways, and other transportation facilities;

34 **(B)** Utility facilities pursuant to 6.c. below;

35 **(C)** Drainage facilities, in accordance with subsection 21.07.040 and  
36 approved by the watershed management services division; and

37 **(D)** Trails and other public recreation facilities.

38 **iii.** The following structures and uses of land or structures are permitted  
39 parallel to the stream within the outer 15 feet of the setback:

40 **(A)** Trails and other public recreation facilities;

41 **(B)** Utility facilities pursuant to 6.c. below;

- 1 (C) Drainage facilities, in accordance with subsection 21.07.040 and  
2 approved by the watershed management services division; and
- 3 (D) Lawns, landscaping, play equipment, storage sheds on  
4 temporary foundations, fences, decks, unpaved patios, and other  
5 similar features that are based on a pervious surface.
- 6 iv. Redevelopment of structures or uses existing on [date of passage] is  
7 allowed in the setback where:
- 8 (A) The director determines there is no practical or feasible  
9 alternative to encroaching into the setback; and
- 10 (B) The redevelopment does not increase the encroachment over  
11 the existing situation.
- 12 v. On undeveloped platted lots existing before [date of passage] where the  
13 director determines the setback precludes practical or feasible  
14 development of the lot, the director shall approve a site plan that allows  
15 but minimizes encroachment into the setback.
- 16 vi. All disturbed areas associated with permitted activities shall be  
17 revegetated with landscaping similar to the natural vegetation of the  
18 area. Revegetation shall occur during the same growing season as the  
19 permitted activity, unless otherwise permitted by the director.
- 20 b. **Prohibited Activities**
- 21 i. No person shall engage in any activity that will disturb, remove, fill, drain,  
22 dredge, clear, destroy, or alter an area, including vegetation, within  
23 stream or river corridors, water body pond or lake edges, wetlands, or  
24 their associated buffer/setback areas, except as may be expressly  
25 allowed in this section or title.
- 26 ii. Channel alteration, including culvertization other than for roadway and  
27 driveway crossings, is prohibited unless a variance is obtained under the  
28 provisions of section 21.03.240, a flood hazard permit is obtained  
29 pursuant to as per section 21.03.090, and relevant state and federal  
30 permits are obtained. In emergency situations, the application for the  
31 necessary approvals may be made no later than 24 hours after channel  
32 alteration has begun. For the purposes of this standard, an "emergency"  
33 is a situation which would result in an unacceptable hazard to life, a  
34 significant loss of property, or an immediate, unforeseen, and significant  
35 economic hardship if corrective action requiring a permit is not  
36 undertaken immediately.
- 37 iii. No storage or processing of hazardous materials or other substances  
38 that would constitute a violation of AMC chapter 15.40 is permitted.
- 39 c. **Utilities**
- 40 Utilities, including potable water wells, may be allowed in a buffer setback area  
41 only if the decision-making body determines that there is no practical alternative.  
42 Any disturbance of the setback buffer area shall be reclaimed by regrading to  
43 original contours and revegetation with native species. Provisions for  
44 reclamation of the disturbed area shall be included in any development or

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

9 **d. Recreation, Education, or Scientific Activities**

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

14 **7. Preservation and Restoration of Vegetation**

15 All existing vegetation within the stream/~~river~~ corridor, **water body** ~~lake or pond~~ edge, or  
16 wetland ~~buffer/setback~~ area shall be preserved and, where necessary to repair damaged  
17 riparian areas, supplemented with additional native planting and landscaping. The  
18 removal of trees or vegetation that the municipality finds to be a threat to the public  
19 health, safety, or welfare; the removal of species **identified** listed as invasive **by the**  
20 **Alaska department of natural resources** in the ~~Selected Invasive Plants of Alaska~~ booklet  
21 produced by the United States Department of Agriculture and the Forest Service, Alaska  
22 Region; or the removal of dead or naturally fallen trees or vegetation, shall be exempt  
23 from this requirement.

24 **Wetland Mitigation Requirements**

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

29 **8. Implementation of Anchorage Wetlands Management Plan**

30 **a. Zoning and Platting Actions**

31 Zoning and platting actions taken under this title shall be consistent with the  
32 *Anchorage Wetlands Management Plan*.

33 **i. "A" Wetlands**

34 Wetlands designated "A" in the *Anchorage Wetlands Management Plan*  
35 and in table 2 of that plan shall be protected as indicated in that table  
36 and in chapter 4 of the *Anchorage Wetlands Management Plan*.

37 **ii. "B" Wetlands**

38 New development plans in "B" wetlands shall obtain a U.S. Corps of  
39 Engineers permit, concurrent with or prior to necessary approval by the  
40 platting board and/or the planning and zoning commission. In order to  
41 maximize protection of wetlands designated "B," in addition to the criteria  
42 normally considered in subdivision, site plan, and conditional use  
43 applications, the platting authority or the planning and zoning  
44 commission shall, prior to approval, make explicit findings that, or the  
45 applicant shall certify with their U.S. Corps of Engineers permit that:

- 46 **(A)** The proposed design and placement of roadways, utility lines,  
47 and structures will not interfere with the natural drainage function

1 indicated in the required hydrologic studies or that such  
2 interference can be adequately mitigated to maintain the natural  
3 drainage function;

4 (B) The soils in the area proposed for development shall adequately  
5 support roadways and structures, or that properly designed  
6 roads and foundations will be provided; and

7 (C) Habitat areas identified in federal, state, or municipal documents  
8 shall be adequately protected.

9 Maintenance of open space in its natural state shall be required where  
10 the platting authority or the planning and zoning commission determines  
11 that such **open space maintenance** is necessary to protect the hydrologic  
12 and habitat values of wetlands on the property being developed or on  
13 adjacent property. Areas where open space is to be preserved in its  
14 natural state shall be indicated on the plat or approved site plan. The  
15 platting authority and planning and zoning commission may require such  
16 land development techniques and such additional conditions as may be  
17 appropriate to carry out the intent of the *Anchorage Wetlands*  
18 *Management Plan* and such other wetlands studies as may be relevant.

19 iii. "C" Wetlands

20 When approving plats or conditional use permits in wetlands designated  
21 "C" under the plan, the platting authority or the planning and zoning  
22 commission shall, whenever practicable, include the recommended  
23 construction mitigation techniques and conditions and enforceable  
24 policies in table 2 of the *Anchorage Wetlands Management Plan*.

25 b. **Application of Plan to Approved Projects**

26 Conditional uses and preliminary plats approved prior to March 12, 1996, the  
27 date of adoption of the revised *Anchorage Wetlands Management Plan*, shall not  
28 have additional conditions imposed upon them as a result of requirements of the  
29 plan except as follows:

30 i. The "A" designation shall apply regardless of prior approvals.

31 ii. Approved plats or conditional uses in wetlands that are returned to the  
32 platting authority or planning and zoning commission for major  
33 amendment may be examined for conformity with **plan** goals and  
34 enforceable policies of the *Anchorage Wetlands Management Plan*.

35 iii. A new U.S. Corps of Engineers permit is required.

36 C. **Steep Slope Development**

37 1. **Purpose**

38 The purpose of this subsection 21.07.020C. is **to establish standards that help achieve**  
39 **the following objectives for development on steep slopes;** ~~to the extent reasonably~~  
40 ~~feasible, to:~~

41 a. Prevent soil erosion and landslides;

1           **b.**     Provide safe circulation of vehicular and pedestrian traffic to and within hillside  
2                    areas and to provide access for emergency vehicles necessary to serve the  
3                    hillside areas;

4           **c.**     Encourage only minimal grading that relates to the natural contour of the land  
5                    and discourage mass grading of large pads and excessive terracing;

6            ~~Preserve the most visually significant slope banks and ridge lines in their natural state;~~

7            ~~Preserve visually significant rock outcroppings, native plant materials, natural hydrology,~~  
8            ~~and other areas of visual significance;~~

9           **d.**     Encourage appropriate variety in building types, grading design, lot sizes, site  
10                   design, density, arrangement, and spacing of buildings in developments in  
11                   sloped areas;

12           **e.**     Encourage innovative architectural, landscaping, circulation, and site design; ~~and~~

13           **f.**     Incorporate drainage design that does not adversely impact neighboring or  
14                   nearby properties, downstream properties, and public infrastructure; and

15           **g.**     Encourage the retention of natural, indigenous vegetation that provides wildlife  
16                   habitat and maintains the area's visual character.

17           **2.     Applicability**

18           This subsection 21.07.020C. shall apply to any ~~development or subdivision proposal or~~  
19           ~~lot created after the effective date of this title~~ within the municipality that is 40,000 square  
20           feet or greater in area for properties with an average slope of 20% or greater, or where  
21           adverse conditions associated with slope stability, erosion, or sedimentation are present  
22           as determined by the municipal engineer, except that lots created through the  
23           conservation subdivision process in accordance with section 21.08.070 are exempt.

24           **3.     Standards**

25           Except as allowed in subsection C.4. below. All proposed development subject to this  
26           section shall comply with the following standards.

27           **a.     Slopes Greater than 30 Percent**

28                   On any lot where a contiguous area of 5,000 square feet or larger with slopes  
29                   steeper than 30% exists, such area shall remain undisturbed, except as allowed  
30                   in subsection C.4. below. One hundred percent of areas with slopes greater than  
31                   30 percent shall remain undisturbed. This requirement shall not apply to small,  
32                   ~~isolated steep slope areas within a site that do not exceed 5,000 square feet.~~

33           **b.     Site Disturbance Envelope**

34                   **i.**     Each lot shall have a site disturbance envelope which shall define the  
35                    limits of all earth disturbance and vegetation clearing. Clearing,  
36                    grubbing, or grading outside the site disturbance envelope is prohibited  
37                    except to modify fuels in order to reduce fire risk, or to accommodate  
38                    utility service connections.

39                   **ii.**    The size of the site disturbance envelope shall be as follows:

40                            **(A)**    Lots up to two acres in area: 20,000 square feet maximum.

- 1 (B) Lots over two acres but less than five acres: 30,000 square feet  
2 maximum.
- 3 (C) Lots five acres or greater: 40,000 square feet maximum.
- 4 iii. Areas outside the site disturbance envelope shall not be used for  
5 stockpiling materials or excess fill, construction vehicle access, storage  
6 of vehicles during construction, or similar uses. Temporary construction  
7 fencing shall be installed around the perimeter of the site disturbance  
8 envelope, to be removed after the final certificate of zoning compliance is  
9 issued.
- 10 iv. The front setback of the lot may be reduced to 10 feet.
- 11 c. **Cutting, Grading, and Filling**
- 12 i. Cutting and grading to create benches or pads for buildings or structures  
13 shall be limited to within the site disturbance envelope. ~~avoided to the~~  
14 ~~maximum extent feasible.~~
- 15 ii. ~~For development on individual lots, except for driveways, e~~ Cut and fill  
16 slopes shall be entirely contained within the site disturbance envelope. ~~a~~  
17 ~~lot (i.e., natural grade at the lot lines shall be maintained). The toe of any~~  
18 ~~fill slope not utilizing an engineered retaining structure, and any~~  
19 ~~engineered retaining structure shall be a minimum of 15 feet from any~~  
20 ~~property line, except as associated with a driveway.~~
- 21 iii. Cut and fill slopes shall be designed to provide a natural transition into  
22 the existing terrain by feathering and rounding. ~~Sharp angles shall be~~  
23 ~~rounded off, in a natural manner, at the top and ends of cut and fill~~  
24 ~~slopes (within approximately five feet of the sharp angle) unless steep~~  
25 ~~angles are a natural character of the site, as determined by the~~  
26 ~~municipality. Where this would damage tree root systems, the amount of~~  
27 ~~rounding off may be reduced and shrubs used instead to hide the~~  
28 ~~transition.~~
- 29 d. **Raising or Lowering of Natural Grade**
- 30 The original, natural grade of a lot shall not be raised or lowered more than four  
31 feet at any point for construction of any structure or improvement, except:
- 32 i. The site's original grade may be raised or lowered a maximum of six feet  
33 if retaining walls are used to reduce the steepness of ~~constructed man-~~  
34 ~~made~~ slopes, provided that the retaining walls comply with the  
35 requirements set forth in this subsection.
- 36 ii. As necessary to construct a driveway from the street to a garage or  
37 parking area, grade changes or retaining walls up to six feet may be  
38 allowed.
- 39 iii. For the purposes of this subsection 21.07.020C.3.d., basements and  
40 buildings set into a slope are not considered to lower the natural grade  
41 within their footprint.
- 42 e. **Retaining Walls**

1 Retaining walls may be used to maximize the usable area on a lot within the site  
2 disturbance envelope minimize cut and fill. Generally, a retaining wall shall be no  
3 higher than four feet, except that a wall varied in height to accommodate a  
4 variable slope shall have an average height no greater than four feet and a  
5 maximum height no greater than eight feet in any 100-foot length. Parallel  
6 retaining walls may be used to overcome steep slopes, provided the following  
7 standards are met:

- 8 **i.** The minimum distance between walls shall be six feet;
- 9 **ii.** The maximum allowable slope between walls shall be 3H:1V; and
- 10 **iii.** The area between the walls shall be landscaped with trees, shrubs, or  
11 both at a rate of 0.5 landscape units per linear foot measured along the  
12 length of the lower retaining wall.

13 A higher wall is permitted:

- 14 **i.** Where used internally at the split between one- and two-story portions of  
15 a building; and
- 16 **ii.** Where substantially hidden from public view at the rear of a building,  
17 where it may not exceed the eave height of the building.

18 **Vehicular Routes**

19 ~~**iii.** Streets, roads, private access roads, driveways, and other vehicular~~  
20 ~~routes shall not be allowed to cross slopes between 30 and 50 percent,~~  
21 ~~except that a run of no more than 100 feet or 10 percent of the~~  
22 ~~road/street's entire length, whichever is less, as measured along the~~  
23 ~~centerline from the nearest intersection to intersection, may be allowed~~  
24 ~~by the decision-maker upon finding that:~~

25 ~~**(A)** Such street or road will not have significant adverse safety or~~  
26 ~~environmental impacts, or appropriate engineering or other~~  
27 ~~measures will be taken by the developer to substantially mitigate~~  
28 ~~any such adverse impact; and~~

29 ~~**(B)** No alternate location for access is feasible or available.~~

30 ~~No intersections including driveways, public use easements,~~  
31 ~~private drives, or other vehicular routes, shall be allowed on this~~  
32 ~~section of road.~~

33

34 ~~**iv.** No street, road, private access road, driveway, or other vehicular route~~  
35 ~~shall cross slopes greater than 50 percent.~~

36 ~~**v.** Streets, roads, private access roads, and other vehicular routes shall~~  
37 ~~follow natural contour lines to the maximum extent feasible.~~

38 ~~**vi.** Grading for streets, roads, private access roads, and other vehicular~~  
39 ~~routes shall be limited to the cartway portion of the right-of-way, plus up~~  
40 ~~to an additional ten feet on either side of the cartway as needed, except~~  
41 ~~that when developing access on slopes in excess of 25 percent, only the~~  
42 ~~cartway right-of-way shall be graded plus the minimum area required for~~

1 any necessary curb, gutter, or sidewalk improvements. The remainder of  
2 the access right-of-way shall be left undisturbed to the maximum extent  
3 feasible.

4 f. **Natural Drainage Patterns**

5 i. Site design shall not change natural drainage patterns, except as  
6 provided below.

7 ii. All final grading and drainage shall comply with section 21.07.040, title  
8 23, the Design Criteria Manual (current approved edition), and the  
9 municipality's *Erosion-Sediment Control Handbook*.

10 iii. To the maximum extent feasible, development shall preserve the natural  
11 surface drainage pattern unique to each site as a result of topography  
12 and vegetation. Grading shall ensure that drainage flows away from all  
13 structures, especially structures that are cut into hillsides. Natural  
14 drainage patterns may be modified on site only if the applicant shows  
15 that there will be no significant adverse environmental impacts on site or  
16 on adjacent properties. If natural drainage patterns are modified,  
17 appropriate stabilization techniques shall be employed.

18 iv. Development shall not adversely impact adjacent and surrounding  
19 drainage patterns.

20 ~~v. Standard erosion control methods shall be used during construction to  
21 protect water quality, control drainage, and reduce soil erosion.  
22 Sediment traps, small dams, barriers of straw bales, or other methods  
23 acceptable to the municipality shall be located wherever there are grade  
24 changes, to slow the velocity of runoff.~~

25 g. **Ground Cover and Revegetation Winter Erosion Blanket**

26 Ground cover and vegetation shall be maintained to control erosion and  
27 sedimentation. All areas that are denuded for any purpose shall be revegetated  
28 or the soils stabilized to prevent erosion and sedimentation prior to November 1  
29 of the year of construction. No excavation shall be permitted after November 1  
30 or before May 1 except under emergency conditions, as determined by the  
31 building official. If a disturbed slope is not stabilized by October 15, the  
32 developer/builder shall install an erosion blanket (or a product with equivalent  
33 performance specifications) when finished working, but no later than October 15,  
34 to prevent erosion prior to the establishment of permanent ground cover. The  
35 erosion blanket shall remain in place until the following May 1.

36 **Utilities on Slopes**

37 ~~Where buried utilities are required to be placed on side slopes and where the  
38 utility corridor runs transverse to the side slope, the side slope portion of the  
39 corridor shall be no more than 10 percent.~~

40 h. **Building Design Standards**

41 The purpose of the building design standards is to minimize site disturbance,  
42 avoid extreme grading required by large building pads on steep slopes, and  
43 reduce the risk of damage from natural hazards.



- i. All buildings and structures shall have a foundation which has been designed by a professional engineer, architect, or other qualified professional.
- ii. At any given point, the height of the structure shall not exceed 25 feet above the original (natural) grade.
- iii. Piers or pilings used to support any part of a structure shall be covered.

**4. Slopes Greater Than 30 Percent**

**a. Purpose**

The requirements of this section are intended to allow consideration of development on slopes up to 50%. In order to assure the safety and stability of such development and to reduce downstream impacts, additional submittals are required as described in this subsection. Nothing in this subsection guarantees approval to disturb slopes greater than 30%.

**b. Applicability**

If the site disturbance envelope as defined in C.3.b. above contains slopes over 30%, the standards of this section shall apply.

**c. Slopes Greater Than 50 Percent**

One hundred percent of areas with slopes greater than 50% shall remain undisturbed.

**d. Administrative Site Plan Review Required**

Development on slopes greater than 30% but not exceeding 50% requires an administrative site plan review. In addition to the site plan approval criteria set forth in subsection 21.03.180E., the approval criteria in subsection 4.g. below shall apply.

**e. Additional Submittal Requirements**

In addition to the submittal requirements for an administrative site plan review, the following information is required:

- i. A geotechnical and engineering report to include the following:
  - (A) Nature, distribution, strength, stability, and pH of soils; conclusions and recommendations for grading procedures; recommendations for frequency of soil compaction testing; design criteria for corrective measures; and opinions and recommendations covering the adequacy of sites to be developed.
  - (B) Slope stability analysis: conclusions and recommendations concerning the effects on slope stability of material removal, introduction of water (both on and offsite), seismic activity, and erosion.
  - (C) Foundation investigation: conclusions and recommendations concerning the effects of soil conditions on foundation and structural stability, including permeability, bearing capacity, shear strength, and shrink/swell potential of soils.

- 1 (D) Specific recommendations for cut and fill slope stability, seepage  
2 and drainage control, or other design criteria to mitigate geologic  
3 hazards, slope failure, and soil erosion.
- 4 (E) Depth to groundwater and to bedrock.
- 5 (F) Complete description of the geology of the site, including site  
6 geologic maps, a complete description of bedrock and  
7 subsurface conditions and materials, including artificial fill, soil  
8 depth, avalanche and mass wasting hazard areas, fractures, or  
9 other significant features.
- 10 (G) A summary of field exploration methods and tests on which the  
11 report is based, such as probings, core drillings, borehole  
12 photography, or test pits.
- 13 ii. A site development plan showing the following:
- 14 (A) Site disturbance envelope as set forth in C.3.b. above.
- 15 (B) Location of all driveways, and utility lines and installations.
- 16 (C) Location of all structures.
- 17 (D) Elevation drawings of all structures.
- 18 iii. Grading and drainage plans that provide the following:
- 19 (A) Topographic survey of existing conditions depicting at a  
20 minimum two foot contour intervals on a legible site map of one  
21 inch equaling 50 feet, or better.
- 22 (B) Proposed grading plan indicating limits of disturbed area,  
23 finished grade at minimum two foot contour intervals, proposed  
24 elevations of improvements, driveway grading at minimum 10  
25 foot intervals measured on centerline, delineation of cut and fill  
26 areas, constructed slopes, proposed drainage features, and  
27 related construction.
- 28 (C) Drainage plans showing approximate locations for all surface  
29 and subsurface drainage devices, retaining walls, dams,  
30 sediment basins, storage reservoirs, and other protective  
31 devices to be constructed with, or as part of, the proposed work,  
32 together with a map showing drainage area, how roof drainage  
33 will be disposed, the complete drainage network, including outfall  
34 lines and natural drainage ways which may be affected by the  
35 proposed development, and the estimated runoff of the area  
36 served by the drains.
- 37 (D) A plan for erosion control and other specific control practices to  
38 be employed on the disturbed area where necessary.
- 39 iv. A revegetation plan that shows:
- 40 (A) The type, size, location, and grade of vegetation that will be used  
41 to complete the development plan and restore areas disturbed

1 during construction, on a scaled plan of one inch equaling 30  
2 feet, or better.

3 **(B)** Slope stabilization measures to be installed.

4 **f. Standards**

5 The standards of the following subsections apply to development under this  
6 subsection C.4.:

7 **i.** 21.07.020C.3.b., Site Disturbance Envelope;

8 **ii.** 21.07.020C.3.c., Cutting, Grading, and Filling;

9 **iii.** 21.07.020C.3.f., Natural Drainage Patterns;

10 **iv.** 21.07.020C.3.g., Ground Cover and Revegetation; and

11 **v.** 21.07.020C.3.h., Building Design Standards.

12 **g. Approval Criteria**

13 **i.** The proposed development minimizes disruption of the natural  
14 topography and protects natural features on the site in their natural state  
15 to the greatest degree possible.

16 **ii.** The principal and accessory structures have been sited in such a  
17 manner as to protect natural features of the site, minimize grading,  
18 preserve the appearance of scenic vistas, and minimize the risk of  
19 property damage and personal injury from natural hazards.

20 **iii.** The design of the structures includes massing, roof lines, exterior  
21 materials and colors, and decking that complements the terrain and  
22 complies with the building design standards set forth in paragraph C.3.i.  
23 above.

24 **iv.** Proposed landscaping preserves the natural character of the area while  
25 minimizing erosion and fire hazard risks to persons and property.

26 **v.** The project protects the public health, safety, and general welfare of  
27 persons residing in and around the area, as well as the community at  
28 large.

29 **vi.** The drainage design of the development will have no adverse impact on  
30 neighboring or nearby properties.

31 **vii.** Areas not well suited for development due to soil stability characteristics  
32 (solifluction, mass movement), geology, hydrology limitations, or  
33 wastewater disposal, have been avoided.

34 **D. Wildlife Conflict Prevention Areas**

35 **1. Applicability**

36 This subsection shall apply within 200 feet on either side of the ordinary high water of the  
37 following streams: Eklutna River (downstream from the Old Glenn Highway),  
38 Thunderbird Creek, Peters Creek and its tributaries, Fire Creek (downstream from the

1 Glenn Highway), Eagle River, South Fork of Eagle River (below the falls), Ship Creek  
2 (upstream from Reeve Blvd.), Campbell Creek (upstream from Lake Otis Parkway),  
3 Rabbit Creek, Little Rabbit Creek, Indian Creek, Bird Creek, and Portage Creek.

4 **2. Standards**

5 Within the area identified in subsection D.1. above, the following mandatory standards  
6 shall apply:

- 7 a. No landfills, transfer stations, schools, or campgrounds are allowed.
- 8 b. Any commercial, institutional, or industrial development shall store edible  
9 garbage in bear-proof containers, and shall not store food outside.
- 10 c. Roads and driveways are allowed only if there is no feasible and prudent  
11 alternative.
- 12 d. Stream crossings, either by roads, driveways, or trails, shall be designed to  
13 facilitate wildlife passage along the stream, and minimize wildlife-human  
14 conflicts.

15 **3. Guidelines**

16 Within the area identified in subsection D.1. above, the following voluntary guidelines  
17 apply:

- 18 a. Fences are discouraged.
- 19 b. New buildings are encouraged to be sited outside these areas.
- 20 c. Trails should be sited outside these areas, and/or with direct consultation with the  
21 state department of fish and game.
- 22 d. All outdoor trash receptacles should be bear-proof.
- 23 e. Bird feeders should be empty between April 15 and October 15.
- 24 f. Food, including pet food and bird seed, should be stored indoors and/or in bear-  
25 proof containers.
- 26 g. Bee hives, vegetable gardens, fruit trees and berry bushes, and composting is  
27 discouraged in this area.
- 28 h. Pet runs and livestock should not be kept in this area, ~~or should be penned with~~  
29 ~~an electric fence.~~

30 **21.07.030 PRIVATE OPEN SPACE**

31 **A. Purpose**

- 32 **1.** In residential development, private open space is intended to provide residents with  
33 opportunities for active and passive outdoor recreation, relaxation, and enjoyment. Open  
34 space enhances the quality and livability of new development and can preserve  
35 vegetation, access to light and air, and scenic views.

2. In nonresidential development, private open space is intended to contribute to the walkability and general quality of the public realm, and to provide employees and customers with space for active or passive recreation and relaxation.

This section 21.07.030 is intended to ensure that open space and natural areas throughout the municipality are considered and protected during the development review process. Open space serves numerous purposes, including preserving natural areas and resources and scenic views; providing health benefits and greater resident access to open areas and recreation; and enhancing the quality of new development in the municipality.

## B. **Applicability Private Open Space**

### **Purpose**

Private open space is private open land area set aside for the exclusive use and enjoyment of a development's residents, employees, or users. Goals and requirements for private open space complement this title's requirements for dedicated open space and parks, and serve similar purposes.

### **Applicability**

Development in the municipality shall be required to set aside a portion of land as private open space according to the following minimum requirements, except as provided in subsection B.3. below: **Single-family, two-family, and townhouse residential uses are exempt.**

1. **R-2M and R-2F districts: 400 square feet of private open space per dwelling unit, or five percent of the gross floor area of nonresidential development. Multifamily residential development containing six or more units: 600 square feet per dwelling unit.**
2. **R-3 district: 300 square feet of private open space per dwelling unit. At least half of the private open space shall be shared in common among the units. Nonresidential development shall provide five percent of the gross floor area for open space. Commercial development: 15 percent of total land area.**
3. **R-4 and R-4A districts: 100 square feet of private open space per dwelling unit. At least half of the private open space shall be shared in common among the units. Nonresidential development shall provide five percent of the gross floor area for open space. Mixed-Use development: 15 percent of total land area.**
4. **B-1A, B-3, RO, NMU, CMU, RMU, and MT districts, and nonresidential development in residential districts: Private open space equal to five percent of the gross floor area of the nonresidential portion of the development shall be provided. Where dwelling units are part of the development, an additional 60 square feet of private open space per dwelling unit shall be provided. Private open space required by nonresidential development and private open space required by residential development shall not be combined on a site.**
5. **DT districts: [to be determined through Downtown Plan and regulations process]**

### **Infill and Redevelopment Areas—In-Lieu Option**

In lieu of a percent private open space set aside, all commercial and residential development in the RM-4 district, the MMU district, and designated infill and redevelopment areas may, with the approval of the director, provide alternative open space and environmental amenities such as those listed below. The economic value of the amenities provided pursuant to this subsection shall be comparable to the economic value of the space that shall have been required under subsection B.2. above.

- a. ~~Plazas;~~
- b. ~~Fountains;~~
- c. ~~Roof gardens;~~
- d. ~~Playgrounds;~~
- e. ~~Street trees and landscaping not already required by this title or other municipal ordinances or policies; or~~
- f. ~~Community meeting space open to the public.~~

**C. Standards**

- a. ~~**Areas Credited**~~  
~~The following areas may be credited for private open space, when they meet the design criteria of subsection 4.e. below:~~

- ~~i. Setbacks;~~
- ~~ii. Utility easements;~~
- ~~iii. Lake, wetland, and stream/riparian setbacks;~~
- ~~iv. Areas with average slopes over 30 percent; and~~
- ~~v. Tree tracts.~~

**1. Areas Not Credited**

Lands within the following areas shall not be counted towards required private open space ~~set-aside~~ areas:

- a. Setbacks with slopes over 10%;
- b. Drainage easements and ditches;
- c. Required landscaping;
- d. Public or private streets or rights of way;
- e. Open parking areas and driveways for dwellings; and
- f. Land covered by structures not intended solely for recreational uses.

**2. Use of Private Open Space Areas**

~~Up to 50% of the r~~Required private open space ~~set-aside~~ may be private yard, garden, patio, deck, balcony, or other open space reserved for the exclusive use of a single dwelling unit. It shall be designed for the occupants of a specific dwelling, and provided immediately adjacent to, and with direct access from the dwelling. The minimum inside dimension for such an area used to meet the private open space requirement shall be no less than 15 feet for ground level spaces such as yards, or six feet for above ground level spaces such as balconies. ~~No less than 50% of the required private open space set-aside shall be common open space area.~~

1           **3. Use of Common Private Open Space Areas**

2           Private open space areas to be used in common by residents and/or associated with  
3           nonresidential uses or mixed uses are intended to be either green space, such as lawn or  
4           natural vegetation, or developed for pedestrian uses, such as patios, courtyards, or active  
5           recreation areas. These areas shall meet the following standards:

6           **a.**       At least half of the common private open space shall be contiguous.

7           **b.**       A walkway shall connect common private open space to primary building  
8           entrances.

9           **c.**       The minimum inside dimension for an area used to meet the requirement shall be  
10          15 feet.

11          **d.**       The common private open space shall be either natural vegetation, landscaped  
12          vegetation (such as lawn or garden), a plaza or courtyard meeting the  
13          requirements of subsection F.5. below, indoor private open space pursuant to  
14          C.4. below, or some combination of the four.

15          **e.**       Up to 25% of the total required open space area may be developed for active  
16          recreation, such as with play equipment or delineated sports field.

17          Common open space areas shall not be developed, or improved, except for the limited  
18          purposes allowed below:

19                **i.**       Facilities for active recreation (equipment for such uses shall be  
20                indicated on the site and/or subdivision plan provided by the developer).

21                **ii.**       Facilities for passive recreation such as lawns and gardens.

22                **iii.**       Clearing of underbrush and debris and the provision of walks, fountains,  
23                fences, and other similar features are allowed.

24                **iv.**       Snow storage, as allowed in subsection 21.07.090H.6.b.ii.

25           **4. Indoor Private Open Space Option Design Criteria**

26           Up to 25% of the total required private open space may be indoors, which shall be  
27           exempt from gross floor area calculations. Such space shall be located and designed to  
28           maximize sunlight access, with the majority of its roof or wall area to be transparent to the  
29           sky and outdoor views, and shall be climate controlled and furnished with features and  
30           amenities that encourage its use. ~~At least one-half of land set aside for private open~~  
31           ~~space shall be contiguous, and no portion of the required open space may be less than~~  
32           ~~30 feet in its smallest dimension.~~

33           **5. Incentive for High Quality Spaces**

34           The total open space area requirement may be reduced by 10% if the area meets all the  
35           other requirements of this section and the following standards:

36           **a.**       Has less than five percent slope;

37           **b.**       Is well-drained and not wetlands;

38           **c.**       Has a minimum inside dimension of 20 feet;

1 **d.** Receives sunlight access on the majority of the open space for at least four  
2 hours per day between the spring and fall equinox; and

3 **e.** In mixed-use districts, is visible from or directly abuts a primary entrance area.

4 **6. Ownership**

5 All private open space areas not reserved for the exclusive use of a single dwelling unit  
6 shall be owned jointly or in common by the owners of the development or permanently  
7 preserved through some other mechanism satisfactory to the director. While private  
8 open space may be platted into separate tracts, those tracts which provide required  
9 private open space shall not be sold separately from the development.

10 **7. Fee In Lieu Prohibited**

11 The payment of fees in lieu of the set-aside of land for private common open space is  
12 prohibited.

13 **21.07.040 DRAINAGE, STORM WATER TREATMENT/RUNOFF, EROSION CONTROL, AND**  
14 **PROHIBITED DISCHARGES**

15 **A. Purpose**

16 **1.** Drainage plans and the requirements of this section and the *Design Criteria Manual* are  
17 intended to implement the following principles of drainage planning:

18 **a.** The design of a drainage system shall not transfer a problem from one location to  
19 another.

20 **b.** Adequate space shall be provided for drainage conveyance and storage.

21 **c.** Good drainage design incorporates the effectiveness of the natural systems,  
22 rather than negating, replacing, redirecting, or ignoring them. The features,  
23 capacity, and function of the existing natural system shall be considered and  
24 utilized.

25 **d.** Drainage and storm water management facilities shall be designed with ease of  
26 maintenance, long-term function, arctic climate function, protection of public  
27 safety, and accessibility as primary considerations.

28 **2.** Other purposes of this section include:

29 **a.** Regulating development preparation and land-disturbing activity in order to  
30 control erosion and sedimentation and accordingly to prevent water pollution  
31 from sedimentation, to prevent accelerated erosion and sedimentation of lakes  
32 and natural watercourses; and to prevent damage to public and private property  
33 by erosion and/or sedimentation during and after construction;

34 **b.** Regulating storm water discharge to improve the quality of the environment for  
35 residents of the municipality, administer the Municipal Separate Storm Sewer  
36 permit, and manage impacts to the watersheds in the municipality; and

37 **c.** Minimizing point and non-point source pollution into the water bodies of the  
38 municipality.



**B. Relationship to Chapter 21.12, Nonconformities**

No nonconforming rights are granted for this section 21.07.040.

**C. Guidance Documents**

The municipal engineer shall develop, implement, and maintain various guidance manuals which shall provide standards and guidelines for this section 21.07.040. The *Design Criteria Manual* and the *Storm Water Treatment Plan Review Guidance Manual* are examples of such manuals, and are adopted herein by reference.

**D. Drainage****1. Intent**

A drainage plan shall show the post-development drainage patterns of the site.

**2. Applicability**

This section applies to all development within the municipality.

**3. Drainage Plan Required**

a. Applications for the following entitlements shall include a drainage plan:

i. A permit from the development services department;

ii. Subdivision plat (both preliminary and abbreviated plats);

iii. Site plan review (administrative and major); and

iv. Conditional use.

The drainage plan submittal requirement may be waived by the director and the municipal engineer if both agree that such a plan is not necessary.

b. The drainage plan shall show the area affected by the application, as well as watercourses, drainage and water quality easements, appropriate drainage outfall for surface water, roof drainage, and other impervious surfaces, and any other pertinent information, and shall address surface and subsurface drainage. The drainage plan shall also indicate impacts, if any, on adjacent, up-gradient, and down-gradient properties.

c. An approved drainage plan is required before any site work commences.

**4. Standards**

Drainage plans shall comply with the requirements of municipal code and the Design Criteria Manual. Post-development drainage plans shall be designed in a manner such that there will be no adverse or cumulative impacts on adjacent, up-gradient, or down-gradient properties. Any net increase of water volumes must be mitigated and/or directed to an adjacent drainage system or receiving water that has the demonstrated capability to handle the new flows. The municipality may require a dedicated drainage easement(s) to ensure the drainage is consistent and compatible with surrounding drainage patterns.

1 **5. When No Permit is Required**

2 a. In situations where a building or land use permit is not required, all design and  
3 construction activities shall comply with municipal code, the *Municipality of*  
4 *Anchorage Standard Specifications* and the *Design Criteria Manual*.

5 b. If a project is significant in nature or the municipal engineer reasonably believes it  
6 will have negative impacts on surrounding property, water quality, drainage, or  
7 the roadways, the municipal engineer may require submittal of a drainage plan  
8 and a full review of the project. The applicant shall pay the appropriate review  
9 fees for the review.

10 c. If a project is under construction, the municipal engineer may issue a stop work  
11 order until the project has been reviewed and approved.

12 d. If a project has been completed and there are negative impacts on surrounding  
13 property, water quality, drainage, or the roadways, the municipal engineer may  
14 pursue enforcement actions under chapter 21.13.

15 **6. Exposure of Subsurface Flows**

16 If, during site work, unexpected subsurface flows are exposed, site work in the affected  
17 area shall immediately stop. The developer shall amend the drainage plan to address  
18 the exposed flows and shall submit it to the municipality for approval.

19 **E. Storm Water Treatment and Erosion and Sediment Control**

20 **1. Intent**

21 A storm water treatment plan shall show both the controls put in place during construction  
22 and any needed post-development controls to prevent erosion and protect water quality.

23 **2. Applicability**

24 No land, water body, watercourse, wetland, structure, or operation within the municipality  
25 and regulated by this code shall be operated, altered, repaired, improved, converted, or  
26 modified unless a storm water treatment plan has been approved. Storm water treatment  
27 plan approval is required prior to commencement of land clearing or ground disturbing  
28 activities; the discharge of surface water (including from snow disposal sites); the  
29 construction, alteration, installation, modification, or operation of a storm water treatment  
30 or disposal system; demolition or utility work; connection to the Municipal Separate Storm  
31 Sewer System; work in waterways or watercourses; or dewatering activities, except as  
32 listed in E.3. below. All construction, development, and maintenance activities shall be in  
33 accordance with the approved storm water treatment plan.

34 **3. Exceptions**

35 A storm water treatment plan shall not be required for the following, except as noted in  
36 F.2. below. An erosion control plan may still be required if the discharge is so  
37 concentrated as to cause soil disturbance.

38 a. Building improvements where no earth is disturbed;

39 b. Any earth disturbance that is both less than 500 square feet in area and less than  
40 four feet in depth;

41 c. Discharges of the following

42 i. Uncontaminated water line flushing;

- 1                   ii.       Residential irrigation water;
- 2                   iii.       Rising ground waters;
- 3                   iv.       Uncontaminated ground water infiltration;
- 4                   v.       Uncontaminated discharges from potable water sources;
- 5                   vi.       Foundation drains;
- 6                   vii.      Air conditioning condensate;
- 7                   viii.     Springs;
- 8                   ix.      Uncontaminated water from crawl space pumps;
- 9                   x.       Individual residential car washing;
- 10                  xi.      Flows from riparian habitats and wetlands;
- 11                  xii.     De-chlorinated swimming pool discharges;
- 12                  xiii.    Street wash waters; or
- 13                  xiv.     Flows from emergency fire fighting activity.

#### 14           4.       **Submittal Requirements and Review Procedure**

15           Storm water treatment plans shall be submitted to the project management and  
 16           engineering department on the form provided. The submittal shall include plans for both  
 17           temporary (during construction) and permanent storm water treatment and erosion  
 18           control, and any supplementary information required in the user's guide or the *Design*  
 19           *Criteria Manual*.

##### 20           a.       **Storm Water Treatment Plan Review Guidance Manual**

21           The *Storm Water Treatment Plan Review Guidance Manual* shall be used to  
 22           develop, review, and approve storm water treatment plans. Applicants  
 23           submitting plans under this subsection shall comply with the manual regarding  
 24           plan requirements and reviews, and if necessary shall gather data to confirm  
 25           storm water conditions.

##### 26           b.       **Changes to an Approved Storm Water Treatment Plan**

27           Any changes to an approved storm water treatment plan, including additions or  
 28           changes to best management practices necessary to maintain effective storm  
 29           water treatment, require approval by the municipal engineer.

##### 30           c.       **New Application Required**

31           If dewatering, land clearing, construction, alteration, installation, modification, or  
 32           operation has not begun within one year after issuance of a storm water  
 33           treatment plan approval, the approval is void, and a new application shall be  
 34           submitted to the project management and engineering department for review and  
 35           approval.

##### 36           d.       **Project-Wide Approval**

1 The municipal engineer may issue a project-wide approval to an applicant who  
2 plans to conduct an operation with the same runoff characteristics at various  
3 discharge locations. He or she may require the submittal of site-specific plans,  
4 including a schedule and description of all planned discharge activities, for  
5 approval, and may restrict that approval to certain proposed discharge activities.

6 **e. Emergency Repairs**

7 Where site repairs must be performed in an emergency, the storm water  
8 treatment plan or changes to an approved storm water treatment plan shall be  
9 submitted within the next business day to the project management and  
10 engineering department. For the purposes of this section, an “emergency” is a  
11 situation which would result in an unacceptable hazard to life, a significant loss of  
12 property, or an immediate, unforeseen, and significant economic hardship if  
13 corrective action requiring a permit is not undertaken immediately.

14 **5. Land Clearing**

15 Mechanized land clearing requires an approved storm water treatment plan. A temporary  
16 native vegetation buffer shall be retained on the perimeter of the lot being cleared, equal  
17 to or greater than the specified minimum setback required in the zoning district. This  
18 buffer shall be at least 15 feet wide on the perimeter of lots in commercial and industrial  
19 zoning districts, except where these are adjacent to PLI and/or residential zoning  
20 districts, where the temporary buffer shall be a minimum of 30 feet wide. Those buffers  
21 of temporary native vegetation in commercial and industrial zoning districts not essential  
22 to the parcel’s development shall be retained and protected from disturbance.

23 **6. Licensed Contractor**

24 Work for which a storm water treatment plan approval is required shall be performed only  
25 by:

26 **a. A contractor licensed to do that work; or**

27 **b. The owner of the single- or two-family dwelling for which the work is being done,**  
28 **if the owner demonstrates to the satisfaction of the development services**  
29 **department that he or she can perform the work in a safe manner.**

30 **7. Erosion and Sediment Control Administrator (ESCA)**

31 A qualified erosion and sediment control administrator, who shall be responsible for the  
32 erosion, sedimentation, and best management practices during construction, shall be  
33 identified in each storm water treatment plan submitted for approval, except for storm  
34 water treatment plans for owner-built single- and two-family dwellings. Evidence of  
35 contractual liability shall be provided when requested.

36 **a. In order to qualify to be an ESCA, a person shall take a training course approved**  
37 **by the municipal watershed management services division. At the end of the**  
38 **training, a test will be administered, and applicants must successfully complete**  
39 **the examination in order to be considered for certification.**

40 **b. A certification shall remain in effect until its expires, unless revoked. Before the**  
41 **expiration of a certification, it may be renewed by paying a renewal fee. ESCAs**  
42 **who have not renewed their certification by 30 days after the expiration date shall**  
43 **be required to re-take the test required for all new applicants.**

44 **c. The municipal engineer may revoke any certificate if the certified person later**  
45 **shows incompetence or lack of knowledge in matters relevant to the certificate,**

1 or if the certificate was obtained by fraud. The following actions shall serve as  
2 evidence of incompetence: If during any 12 month period an ESCA (1) fails on  
3 three different occasions to correct any deficiencies noted in a written inspection  
4 report by a municipal inspector within the prescribed time; or (2) allows an illicit  
5 discharge on two separate occasions. If a certificate is revoked, another  
6 certificate shall not be issued to the same person within 12 months after the date  
7 of revocation.

8 **d.** ESCA certificates are not transferable from one person to another, and the  
9 lending of any certification or the obtaining of permits there under for any other  
10 person shall be deemed cause for revocation.

11 **e.** The municipal engineer may require retesting of any certificate holder if such  
12 person shows incompetence or lack of knowledge in matters relevant to the  
13 certificate. Failure to pass the re-testing shall result in the revocation of the  
14 certificate.

15 **8. Alternate Materials, Design, and Method of Construction**

16 **a.** The provisions of this section are not intended to prevent the use of any alternate  
17 material, design, or method of construction not specifically prohibited by this  
18 code, provided any alternate has been approved and its use authorized by the  
19 municipal engineer.

20 **b.** The municipal engineer may approve any such alternate, provided that he or she  
21 finds that the proposed design complies with the intent and purpose of this code,  
22 and that the material, method, or work offered is, for the purpose intended, at  
23 least the equivalent of that required in this code in suitability, effectiveness,  
24 durability, safety, sanitation, and degree of structural integrity. The details of any  
25 action granting modifications or the acceptance of a compliance alternative shall  
26 be recorded and entered in the watershed management services division files.

27 **c.** Whenever there is insufficient evidence of compliance with any of the provisions  
28 of this code or evidence that any material or construction does not conform to the  
29 requirements of this code, the municipal engineer may require tests as proof of  
30 compliance to be made at no expense to the municipality. Test methods shall be  
31 as specified by this code or by other recognized test standards. If there are no  
32 recognized and accepted test methods for the proposed alternative, the  
33 municipal engineer shall determine test procedures. All tests shall be made by  
34 an approved agency. Reports of such tests shall be retained by the municipal  
35 engineer for the period required for the retention of public records.

36 **9. Water Quality Easement**

37 **a. Purpose**

38 Water quality easements provide protection of land, streams, wetlands, riparian  
39 habitat, and water quality collection or treatment structures. Water quality  
40 easements provide an option to subdividing separate tracts of land to protect  
41 these areas. This will allow areas of land to be protected in an easement and still  
42 be used to meet other requirements of this title, such as minimum lot size, open  
43 space, etc.

44 **b. Applicability**

45 Water quality easements may be placed on areas of land by the property owner  
46 or as required by the municipality.

1 **c. Prohibited Activities**

2 The following activities are prohibited in a water quality easement:

3 i. Clearing or significantly disturbing vegetation;

4 ii. Grading and excavation work;

5 iii. Placement of structures, fill, vehicles, and/or other materials;

6 iv. Paving; and

7 v. Storage or processing of hazardous materials.

8 **d. Permitted Activities**

9 If approved through other provisions of this title, the municipal engineer may  
10 approve the following activities within a water quality easement:

11 i. Utilities;

12 ii. Trails;

13 iii. Habitat restoration;

14 iv. Revegetation of disturbed areas with shrubs, trees, and ground cover  
15 similar to the natural vegetation in the area; and

16 v. Drainage facilities, with provisions for water quality control devices, and  
17 the necessary maintenance thereof.

18 Areas disturbed by construction permitted by this subsection shall be revegetated  
19 with trees, shrubs, and ground covers similar to the natural vegetation in the  
20 area. Revegetation shall occur in the same growing season, except as otherwise  
21 permitted by the municipal engineer.

22 **e. Responsibility and Enforcement**

23 The municipal engineer is responsible for control and acceptance of water quality  
24 easements and is responsible for enforcing violations within a water quality  
25 easement. Violations may be pursued under chapter 21.13.

26 **10. Inspections**

27 **a. Required Inspections**

28 Prior to the commencement of land clearing or ground disturbing activities, the  
29 discharge of surface water, or dewatering activities subject to this section, an  
30 inspection of approved Best Management Practices associated with the storm  
31 water treatment plan shall be conducted. Prior to the issuance of a certificate of  
32 zoning compliance, a final inspection by the municipal storm water inspector shall  
33 be completed and approved. The owner or contractor of record is responsible for  
34 requesting the required inspections at the appropriate times.

35 **b. Other Inspections Authorized**

36 i. A municipal official, upon presentation of proper identification, may enter  
37 the premises at reasonable times to inspect or perform duties imposed  
38 by this code, for the purpose of determining whether the owner or  
39 operator thereof is in compliance with the specific requirements of this

1 section. If such premises are unoccupied, the official shall first make a  
2 reasonable effort to locate the owner or other person having charge or  
3 control of the premises and request entry. If entry is refused, any  
4 approvals issued under this section may be immediately suspended until  
5 an inspection is conducted, and the official shall have recourse to the  
6 remedies provided by law to secure entry. Permittees, owners, or  
7 operators shall immediately stop all work upon the site being posted with  
8 a stop work order for failure to allow inspection.

9 **ii.** A municipal official may inspect any property or facility suspected as the  
10 source of illicit discharges in violation of 33 USC 1342 (1987) as  
11 amended.

12 **iii.** No inspection for which a warrant would be required under the  
13 constitution of this state or the United States may be conducted under  
14 this section without the proper warrant.

15 **c. *Availability and Production of Plans and Records***

16 Approved plans and specifications shall be available on site for review by  
17 municipal storm water inspectors at the time of requested inspections. At the  
18 request of municipal officials and during normal working hours, owners or  
19 operators of facilities, construction sites, premises, or areas shall produce and  
20 make available for inspection or copying all records or information required to be  
21 maintained or reported under the provisions of this section.

22 **F. Prohibited Discharges**

23 **1. Applicability**

24 This section applies throughout the municipality.

25 **2. Prohibited Discharges or Acts**

26 No person shall cause or permit illicit discharges:

27 **a.** Into any waters of the state, or waters of the United States, unless such is first  
28 treated in a manner approved by the federal, state, or other agencies having  
29 jurisdiction; or

30 **b.** Into a storm sewer of the municipality, other than pursuant to a dewatering  
31 permit, an approved storm water treatment plan, a National Pollutant Discharge  
32 Elimination System permit, or a permit issued by a local, state, or other agency  
33 having jurisdiction. Examples of discharges that are prohibited include:

34 **i.** Grease, fatty materials, offal, or garbage;

35 **ii.** Sand, sand dust, direct, gravel, sawdust, metal filings, broken glass, or  
36 any material which may cause or create an obstruction in the sewer;

37 **iii.** Gasoline, benzene, fuel oil, or a petroleum product or volatile liquid;

38 **iv.** Milk or any liquid milk waste product in quantities in excess of ten gallons  
39 during any 24-hour period;

40 **v.** Wax, cyanide, phenols, or other chemical or substance that may cause  
41 damage to materials of which the sewer system is constructed; or

1 **vi. Wastewater, as defined in AMC section 15.65.010.**

2 For the purposes of this section, "illicit discharges" means pollutants or any materials  
3 other than storm water.

4 **3. Dumping in Watercourses and Water Bodies**

5 No person shall deposit, dump, abandon, throw, scatter, or transport solid waste,  
6 garbage, rubbish, junk, fill, soil, dirt, snow, ice, or other material in such a manner as to  
7 obstruct, impound, or cause siltation of any river, stream, creek, watercourse, water body,  
8 stream or water body or wetland setback, water quality easement, storm sewer, ditch,  
9 drain, or gutter except as otherwise allowed by valid federal, state, and other permits or  
10 licenses relative to water pollution, water impoundment, or water quality control.

11 **G. Hazardous Sites**

12 **1.** For the purposes of this section, any site meeting any or all of the conditions and defects  
13 described below shall be deemed to be a hazardous site, provided that such conditions  
14 or defects exist to the extent that the health of the watershed, the requirements of the  
15 Municipal Separate Storm Sewer System permit, or the safety of the public are  
16 endangered, as determined by the municipal engineer.

17 **a.** Any site that causes sediment to be discharged in such a way that it may be  
18 delivered directly or indirectly to the storm sewer or receiving waters.

19 **b.** Any site that causes pollution to be discharged in such a way that they may be  
20 delivered to the watershed;

21 **c.** Any property for which the owner, manager, or tenant fails to install and/or  
22 maintain properly permitted BMPs;

23 **d.** Any site that becomes flooded and retains water for a period exceeding 72 hours,  
24 unless the area was designed and approved for water detention; or

25 **e.** Any site where actions are causing soil masses to be in danger of sloughing,  
26 destabilizing, failing, or collapsing as a mass wasting event.

27 **2.** All sites which are determined after inspection by the municipal engineer to be a  
28 hazardous site are hereby declared to be public nuisances and shall be abated by  
29 installation of appropriate BMPs as determined by the municipal engineer.

30 **H. Violations and Penalties**

31 **1. Violations**

32 **a.** Any person who violates any provisions of this section shall report such violation  
33 to the project management and engineering department and shall make available  
34 any information or records related to the contents of the substance discharged.

35 **b.** In addition to any other remedy or penalty provided by this title, an person who  
36 violates any provision of this title or regulations adopted there under shall be  
37 subject to the civil penalties or injunctive relief, or both, as provided by AMC  
38 section 1.45.010B.

39 **c.** In any action under this section, the municipality, if not a party, may intervene as  
40 a matter of right.



1 **2. Penalties**

2 **a.** All sites operating without approval under this section may be immediately  
3 posted with a stop work order and shall pay double fees for all required permits  
4 or inspections under this section, as well as any fines which may be assessed.  
5 In addition to any other remedy permitted by law, fines may be assess for failure  
6 to have a permit or approved plan, failure to allow inspections, or failure to obey  
7 a properly issued stop work order. Violators of this section may also be charged  
8 \$1,000 per day until the violation(s) is corrected.

9 **b.** Any person who negligently or intentionally permits or causes a discharge in  
10 violation of this section shall, upon conviction, be subject to a civil fine penalty of  
11 \$5,000 to \$10,000 per day, or injunctive relief to cease the violation, or both. In  
12 addition to any fine assessed under this section, any person who violates any  
13 provision of this section or any rule or regulation adopted pursuant to this section  
14 shall be subject to a further civil penalty of up to double the cleanup and  
15 remediation costs incurred as a result of the violation.

16 **c.** Any person who permits or causes a discharge in violation of this section shall be  
17 strictly liable, regardless of intent, for the full amount of any fines or other  
18 liquidated penalties incurred by the municipality for any violations of federal law  
19 which are caused by the discharge.

20 **d.** No certificate of zoning compliance shall be issued until all fines levied under this  
21 section have been paid.

22 **I. Appeals**

23 **1.** Appeals of orders, decisions, or determinations made by the municipal engineer shall be  
24 heard by the zoning board of examiners and appeals, pursuant to subsection  
25 21.03.050B.

26 **2.** The zoning board of examiners and appeals shall have no authority over the  
27 interpretation of the administrative provisions of this section, nor shall the board be  
28 empowered to waive requirements of this section.

29 **21.07.050 UTILITY DISTRIBUTION FACILITIES**

30 **A. Underground Placement Required for New or Relocated Lines**

31 **1.** Except as provided in subsection B. below, all newly installed or relocated utility  
32 distribution lines shall be placed underground.

33 **2.** Utility distribution lines owned or operated by utilities that are parties to a joint trench  
34 agreement shall be placed underground in a joint trench.

35 **3.** Nothing in this section restricts the maintenance, repair, or reinforcement of existing  
36 overhead utility distribution lines.

37 **B. Exceptions**

38 **1.** Except where an assessment district has been formed to convert overhead utility  
39 distribution lines as provided in title 19.60, utility distribution lines need not be placed  
40 underground in the class B improvement area defined in subsection 21.08.050B., or in  
41 the I-2 zoning district. However, in the following areas newly installed or relocated utility

1 distribution lines shall be placed underground: Lower Hillside, between and including  
2 Abbott Road, Rabbit Creek Road, Hillside Drive and the New Seward Highway.

3 2. Except where an assessment district has been formed to convert overhead utility  
4 distribution lines as provided in AMC chapter 19.60, CATV utility distribution lines need  
5 not be placed underground where there are other overhead utility distribution lines;  
6 provided that, when all of the other overhead distribution lines are placed underground,  
7 the CATV utility distribution line shall also be placed underground in a joint trench with  
8 the other utility distribution lines.

9 3. A new utility distribution line may be placed overhead when necessary immediately to  
10 restore service interrupted by accident or damage by flood, fire, earthquake or weather;  
11 provided that the utility distribution line shall be replaced by a utility distribution line  
12 conforming to this chapter within 12 months of its placement.

13 4. A utility distribution line or service connection may be placed on the surface of frozen  
14 ground, provided that it is placed underground within 12 months thereafter.

15 5. New facilities may be added to existing overhead utility distribution facilities located  
16 outside target areas.

17 6. A temporary utility distribution line may be placed overhead in connection with new  
18 construction if the utility's tariff approved by the state public utilities commission expressly  
19 provides for removal of that line by a date certain, not to exceed 12 months thereafter.

20 **C. Variances**

21 1. The director may grant a variance from subsection A. above when any of the following is  
22 found:

23 a. Placing a utility distribution line underground would cause an excessive adverse  
24 environmental impact;

25 b. Placing a utility distribution line underground would threaten public health and  
26 safety, because the placement cannot be shown to meet acceptable technical  
27 standards for safety; or

28 c. Placing a utility distribution line underground in an environmentally sound and  
29 safe manner would cost more than three times the cost of placing the line  
30 overhead, where the applicant demonstrates the relative cost to the satisfaction  
31 of the director.

32 2. The director may grant a variance from subsection A. above when he or she finds that  
33 the utility distribution line is being placed overhead temporarily for one of the reasons  
34 listed in this subsection:

35 a. The line is being placed to provide service when weather conditions do not allow  
36 excavation for underground placement;

37 b. A permanent location for underground placement is not available because of  
38 construction in progress; or

39 c. The line is being placed to provide service to a temporary use or structure.

1 A variance issued under this subsection C.2. shall expire within two years of its issuance.

2 **D. Relationship to Chapter 21.12, *Nonconformities***

3 Existing overhead utility distribution lines located where this title requires new or relocated utility  
4 distribution lines to be placed underground are nonconforming utility distribution lines and are  
5 subject to the provisions of this subsection. A utility distribution line is not a nonconforming  
6 structure or use under chapter 21.12, *Nonconformities*, solely because it is a nonconforming  
7 overhead line under this section.

8 **E. Designation of Target Areas**

9 1. An electric utility that owns poles that support nonconforming utility distribution lines shall  
10 prepare or otherwise include as part of its annual capital improvement plan, a five-year  
11 undergrounding program consistent with subsection F. below. This five-year program  
12 shall be updated on an annual basis. Priorities shall be based on undergrounding in  
13 conjunction with the electric utility's essential system improvements and then by target  
14 area as set forth below in no particular order of priority. The director shall review and  
15 provide comment for consideration by the electric utilities on these five-year programs.  
16 When reviewing and commenting on these programs, the director shall consider the  
17 following factors in no particular order of priority:

18 a. Whether undergrounding will avoid or eliminate an unusually heavy concentration  
19 of overhead distribution facilities.

20 b. Whether the street or general area is extensively used by the general public and  
21 carries a heavy volume of pedestrian or vehicular traffic.

22 c. Whether the appearance of grounds and structures adjacent to the roadway is  
23 such that the removal of the overhead facilities will substantially improve the  
24 general appearance of the area.

25 d. Whether the street or area affects a public recreation area or an area of scenic  
26 interest.

27 e. Whether there is a significant opportunity to achieve economies due to the  
28 anticipated relocation or replacement of overhead lines or the widening or  
29 realignment of streets within a given area.

30 f. Whether the five-year program sufficiently addresses the objectives of subsection  
31 F. below.

32 g. Whether the area under consideration is within a zone where new and relocated  
33 distribution lines are required to be placed underground.

34 h. Whether the installation of underground distribution lines is economically,  
35 technically and environmentally feasible, including the effect on the attached  
36 utility.

37 2. The director shall confirm annually that the electric utilities have developed project  
38 undergrounding implementation plans. The director shall consult with the utilities and  
39 public agencies affected by any implementation plan. In reviewing implementation plans,  
40 the director shall consider the factors stated in subsection E.1. above.

- 
- 1           **3.**     The following shall be target areas:
- 2                   **a.**     Central Business District: between and including Third Avenue and Tenth  
3                   Avenue and L Street and Ingra Street.
- 4                   **b.**     Midtown area: between and including New Seward Highway and Minnesota  
5                   Drive and International Airport Road and Fireweed Lane.
- 6                   **c.**     All municipal and state street improvement projects except for those which do not  
7                   require relocation of utility distribution facilities.
- 8                   **d.**     The following major traffic corridors:
- 9                           **i.**     Old Seward Highway.
- 10                           **ii.**    Ingra and Gambell Streets between and including Ninth Avenue and  
11                           Fireweed Lane.
- 12                           **iii.**   Northern Lights Boulevard and Benson Boulevard between and including  
13                           Glenwood Street and Arlington Drive.
- 14                           **iv.**   Muldoon Road between and including New Glenn Highway and  
15                           Patterson Street.
- 16                           **v.**    Tudor Road between and including Patterson Street and Arctic  
17                           Boulevard.
- 18                           **vi.**   Boniface Parkway between and including 30th Avenue and New Glenn  
19                           Highway.
- 20                           **vii.**   Spenard Road between and including Hillcrest Drive and International  
21                           Airport Road.
- 22                           **viii.**   Arctic Boulevard between 17<sup>th</sup> Avenue and Tudor Road.
- 23                           **ix.**    Lake Otis Parkway between Tudor Road and Abbott Loop
- 24                   **e.**     All park, recreational use, and scenic interest areas.
- 25                   **f.**     Eagle River Central Business District between and including the New Glenn  
26                   Highway, North Eagle River Access Road, Aurora street as extended to the Old  
27                   Glenn Highway, and the Old Glenn Highway.
- 28                   **g.**     Any area where utility distribution facilities are provided by more than one utility  
29                   as a result of mergers and boundary changes approved by the state public  
30                   utilities commission.
- 31                   **h.**     School and university areas.
- 32   **F.     Nonconforming Overhead Lines**
- 33            **1.**     An electric utility that owns poles that support nonconforming utility distribution lines shall  
34            remove the poles and place those lines underground. Any other utility that attaches to

- 1 such poles shall place its lines underground at the same time that the pole owner places  
2 lines underground.
- 3 a. The electric utility that owns poles shall, in each fiscal year, expend at least two  
4 percent of a three-year average of its annual gross retail revenues derived from  
5 utility service connections within the municipality, excluding toll revenues,  
6 revenues from sales of natural gas to third parties, and revenues from sales of  
7 electric power for resale for purposes of undergrounding nonconforming lines.  
8 An electric utility's expenditures, pursuant to AS 42.05.381(h), within the  
9 municipality, shall be counted toward satisfaction of the two percent expenditure  
10 required by this subsection.
- 11 b. A utility with lines attached to a pole that is to be removed under this subsection  
12 shall place its lines underground at the same time that the pole owner places its  
13 lines underground. To underground nonconforming utility lines, an attached  
14 utility shall not be required to expend more than two percent of its annual gross  
15 retail revenues derived from utility service connections within the municipality,  
16 excluding toll revenues. For the purpose of satisfying subsection 21.07.050F, the  
17 utility's expenditures pursuant to AS 42.05.381(h) within the municipality are  
18 counted toward this two percent expenditure limit.
- 19 c. The electric utility that owns poles may choose which existing lines to  
20 underground in order to fulfill the two percent expenditure requirement, in  
21 consultation with appropriate public agencies and any other utilities.
- 22 d. An electric utility that owns poles that does not expend the amount required in  
23 subsection F.1. of this section, or that expends more than that amount, may carry  
24 over the under expenditure or over expenditure as an adjustment to the following  
25 year's obligation.
- 26 2. The electric utility that owns poles shall notify the director, and utilities or entities with  
27 lines attached to such poles, of the approximate date that the owner plans to remove the  
28 poles. Such notice, where possible, shall be given at least four months in advance of the  
29 undergrounding except where an emergency or other unforeseen circumstances  
30 preclude such notice, in which case such advance notice as is reasonable under the  
31 circumstances shall be provided.
- 32 3. A utility shall annually submit a report of its undergrounding projects and expenditures for  
33 non-conforming lines to the director within 120 days of the end of the preceding calendar  
34 year.
- 35 4. All new service connections shall be placed underground in the same manner as required  
36 for utility distribution lines under subsections A. and B. above. New service lines may be  
37 temporarily installed above ground from October through May, if placed underground  
38 prior to the next October.
- 39 **G. Lines in Municipal Right-of-Way**
- 40 1. The department of project management and engineering shall furnish to a utility owning  
41 or operating utility distribution lines all planning documents for municipal road  
42 construction that will require the relocation of those utility distribution lines.
- 43 2. Once a utility installing a utility distribution line underground in material compliance with a  
44 right-of-way permit issued by the department of project management and engineering

1 and in accordance with this chapter, the municipality shall reimburse the cost of any  
2 subsequent relocation of the utility distribution line required by municipal road  
3 construction.

- 4 **3.** If municipal road construction requires the relocation of a nonconforming utility  
5 distribution line, the municipality, as part of the road construction project cost, shall  
6 reimburse the cost of the relocation. Reimbursable costs under this subsection include  
7 engineering and design, inspection, construction, and general overhead costs, but  
8 exclude utility plant betterment costs. Plant betterment costs are the costs of providing  
9 utility distribution line capacity or quality beyond what current industry standards require  
10 for the capacity or level of service existing before the relocation.

11 **H. Conversion of Service Connections**

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

16 **21.07.060 TRANSPORTATION AND CONNECTIVITY**

17 **A. Purpose**

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

25 **B. Applicability**

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

27 **C. Traffic Impact Mitigation**

28 **1. Traffic Impact Analysis Required**

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

- 37 **a.** Thresholds established in the traffic department's *Policy on Traffic Impact*  
38 *Analyses* are met;
- 39 **b.** A TIA is required by the planning and zoning commission or assembly as a  
40 condition of any land use application approved pursuant to the requirements of  
41 this title; or

- 1           c.     The director shall, unless the traffic engineer deems it unnecessary through a  
2           waiver, also require a TIA for:
- 3           i.     Any case where the previous TIA for the property is more than two years  
4           old;
- 5           ii.    Any case where increased land use intensity will result in substantially  
6           increased traffic generation and reduction of the existing level of service  
7           on affected streets by at least one service level; or
- 8           iii.   Any case in which the traffic engineer determines that a TIA should be  
9           required because of other traffic concerns that may be affected by the  
10          proposed development.

11           **2.     TIA and Development Review Process**

- 12           a.     The development and review of a TIA shall be according to the traffic  
13           department's *Policy on Traffic Impact Analyses*.
- 14           b.     When state-owned roads are involved, the applicant shall coordinate with the  
15           state department of transportation and public facilities, and the development of a  
16           TIA shall follow state regulations as defined in 17 AAC 10.095.

17           **3.     Traffic Mitigation Measures**

18           The applicant shall, as part of the traffic impact analysis, recommend measures to  
19           minimize and/or mitigate the anticipated impacts and determine the adequacy of the  
20           development's planned access points. Mitigation measures shall be acceptable to the  
21           traffic engineer and may include, without limitation: an access management plan;  
22           transportation demand management measures; street improvements on or off the site;  
23           placement of pedestrian, bicycle, or transit facilities on or off the site; or other capital  
24           improvement projects such as traffic calming infrastructure or capacity improvements.

25           **D.     Streets and On-Site Vehicular Circulation**

26           **1.     Street Standards**

27           All streets shall meet the standards and requirements set forth in subsections  
28           21.08.030F.2., *Street Grades*, 21.08.030F.3., *Street Alignment*, and 21.08.030F.4. *Street*  
29           *Intersections*.

30           **2.     Parking Lots**

31           In addition to complying with the standards in this subsection 21.07.060D., parking areas  
32           shall comply with the standards set forth in section 21.07.090, *Off-Street Parking and*  
33           *Loading*.

34           **3.     Street Connectivity**

35           **a.     Purpose**

36           Street and block patterns should include a clear hierarchy of well-connected  
37           streets that distribute traffic over multiple streets and avoid traffic congestion on  
38           principal routes. Within each residential development, the access and circulation  
39           system and a grid of street blocks should accommodate the safe, efficient, and  
40           convenient movement of vehicles, bicycles, and pedestrians through the  
41           development, and provide ample opportunities for linking adjacent  
42           neighborhoods, properties, and land uses. Local neighborhood street systems  
43           are intended to provide multiple direct connections to and between local

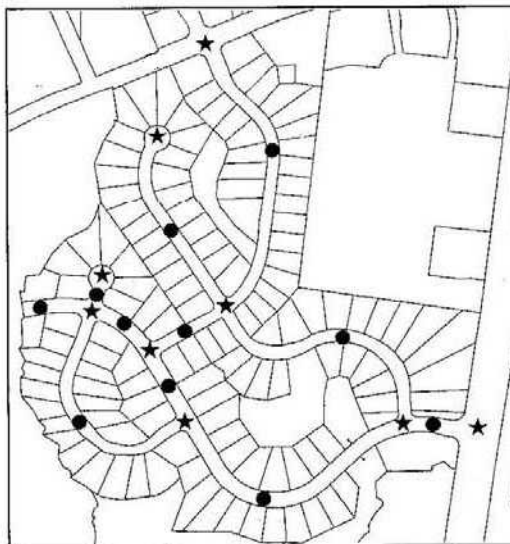
1 destinations such as parks, schools, and shopping. These connections should  
2 knit separate developments together, rather than forming barriers between them.

3 **b. Internal Street Connectivity (Connectivity Index)**

4 i. All development shall achieve a connectivity index of ~~1.4~~ 1.65 or greater.

5 ii. The connectivity index for a development is calculated by dividing its  
6 links by its nodes. Figure 21.07-1, *Calculation of Connectivity*, provides  
7 an example of how to calculate the connectivity index. Nodes (stars)  
8 exist at street intersections and cul-de-sac heads within the  
9 development. Links (circles) are stretches of road that connect nodes.  
10 Street stub-outs are considered as links. ~~One link beyond every node~~  
11 ~~that exists in the development and provides access to the greater~~  
12 ~~municipal street system shall be included in the index calculation.~~ In the  
13 diagram, there are ~~11~~ 16 links (circles) and nine nodes (stars); therefore  
14 the connectivity index is ~~1.22 (11/9 = 1.22)~~ 1.78 (16/9 = 1.78).

15 **FIGURE 21.07-1: CALCULATION OF CONNECTIVITY**



17 iii. The connectivity index standard of ~~1.4~~ 1.65 or greater may be reduced  
18 by the director if the ~~owner~~ developer demonstrates it is impossible or  
19 impracticable to achieve due to topographic conditions, natural features,  
20 or adjacent existing development patterns.

21 iv. Whenever cul-de-sac streets are created, at least one 10 foot wide  
22 pedestrian access easement shall be provided, to the extent ~~reasonably~~  
23 ~~feasible~~ practicable, between each cul-de-sac head or street turnaround  
24 and the sidewalk system of the closest adjacent street or pedestrian  
25 ~~walkway~~ pathway. This requirement shall not apply where it would result  
26 in damage to or intrusion into significant natural areas such as stream  
27 corridors, wetlands, and steep slope areas, ~~or if the configuration of~~  
28 ~~existing adjacent development prevents such a connection.~~

29 **c. External Street Connectivity**



- 1 i. The arrangement of streets in a development shall provide for the  
2 alignment and continuation of existing or proposed streets into adjoining  
3 lands in those cases in which the adjoining lands are undeveloped and  
4 intended for future development or in which the adjoining lands are  
5 developed and include opportunities for such connections.
- 6 ii. Street rights-of-way shall be extended to or along adjoining property  
7 boundaries such that a roadway connection or street stub shall be  
8 provided for development at least every 1,500 feet for each direction  
9 (north, south, east, and west) in which development abuts vacant lands.  
10 The director may waive this requirement where **the configuration of**  
11 **existing adjacent development**, topography, or the presence of sensitive  
12 natural areas makes compliance impractical.
- 13 iii. At all locations where streets terminate with no street connection, but a  
14 future connection is planned or accommodated, a sign shall be installed  
15 at the location with the words "FUTURE ROAD CONNECTION" to inform  
16 property owners.
- 17 d. **Vehicular Access to Public Streets**  
18 Any development of more than 100 residential units or additions to existing  
19 developments such that the total number of units exceeds 100 shall be required  
20 to provide vehicular access to at least four public streets unless such provision is  
21 deemed impractical by the director and the traffic engineer, due to topography,  
22 natural features, or the configuration of **existing** adjacent developments.
- 23 e. **Connections to Vacant Land**  
24 Where new development is adjacent to land likely to be developed or  
25 redeveloped in the future, all streets, **sidewalks, trails, walkways, bicycle paths,**  
26 and access ways in the development's proposed street system shall continue  
27 through to the boundary lines of the area, as determined by the director and the  
28 traffic engineer, to provide for the orderly subdivision of such adjacent land or the  
29 transportation and access needs of the community. In addition, all  
30 redevelopment and street improvement projects shall take advantage of  
31 opportunities for retrofitting existing streets to provide increased vehicular and  
32 pedestrian connectivity.
- 33 ~~**Cross Access to Adjacent Properties**~~  
34 ~~All nonresidential development shall be designed to allow for cross-access to~~  
35 ~~adjacent properties to encourage shared parking and shared access points on~~  
36 ~~public or private streets. When cross-access is deemed impractical by the~~  
37 ~~director and the traffic engineer on the basis of topography, the presence of~~  
38 ~~natural features, or vehicular safety factors, this requirement may be waived~~  
39 ~~provided that appropriate bicycle and pedestrian connections are provided~~  
40 ~~between adjacent developments or land uses. A cross access easement must~~  
41 ~~be recorded prior to issuance of a certificate of zoning compliance for the~~  
42 ~~development.~~
- 43 f. **Neighborhood Protection from Cut-through Traffic**  
44 Street connections shall connect neighborhoods to each other and to local  
45 destinations such as schools, parks, greenbelt trail systems, and shopping  
46 centers, while minimizing neighborhood cut-through vehicle traffic movements  
47 that are non-local in nature. Configuration of local and internal streets and traffic

1 calming measures shall be used to discourage use of the local street system for  
2 cut-through collector or arterial vehicle traffic.

3 **E. Standards for Pedestrian Facilities**

4 **1. Purpose**

5 The purpose of this section is to provide convenient, safe, and regular pedestrian  
6 facilities along streets and within and between developments. Such facilities create a  
7 healthful built environment in which individuals have opportunities to incorporate physical  
8 activity, such as walking or bicycling, into their daily routing. Injuries and fatalities are  
9 reduced when interactions between pedestrians and vehicles are minimized. Adequate  
10 pedestrian facilities meet community goals for mobility and access, as well as for  
11 providing transportation choices.

12 **2. Sidewalks**

13 a. All sidewalks shall be designed to comply with the standards of the *Design*  
14 *Criteria Manual* (DCM) and *Municipality of Anchorage Standard Specifications*  
15 (MASS).

16 b. Sidewalks shall be installed on both sides of all ~~arterials~~, collector streets,

17 c. In all class A zoning districts, sidewalks shall be installed on both sides of all new  
18 and local streets (public or private, including loop streets and cul-de-sacs), and  
19 within and along the frontage of all new development or redevelopment with a  
20 minimum of 125 feet of frontage in the R-4, R-4A, mixed-use, and commercial  
21 districts.

22 d. In class B zoning districts ~~where the minimum lot size is 40,000 square feet or~~  
23 ~~greater~~, sidewalks, walkways, and trails shall be provided in accordance with the  
24 *Areawide Trails Plan* and any adopted neighborhood or district plan.

25 e. The requirements of 2.c. and 2.d. ~~This requirement shall not apply to local streets~~  
26 ~~in districts in which the minimum lot size is 40,000 square feet or greater or in~~  
27 ~~steep-slope areas where sidewalks on one side of the street may be approved by~~  
28 ~~the director to reduce excessive slope disturbance, adverse impacts on natural~~  
29 ~~resources, and potential soil erosion and drainage problems.~~

30 **3. Through-Block Connections**

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

36 **4. On-site Pedestrian Walkways**

37 a. **Continuous Pedestrian Access**

38 Pedestrian walkways are intended to ~~shall~~ form an convenient on-site circulation  
39 system that minimizes conflict between pedestrians and traffic at all points of  
40 pedestrian access to on-site parking and building entrances. This subsection E.4.  
41 ~~provision~~ does not apply to single- and two-family development. (Illustrate)

42 b. **On-site Pedestrian Connections**

43 ~~Site plans shall orient to pedestrian site access points and connections to~~  
44 ~~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. This provision does not apply to single- and two-family development. (Illustrate)

The following walkways shall be provided. Where one walkway fulfills more than one requirement, only one walkway need be provided. Public pedestrian facilities may satisfy the requirement if they can provide a relatively direct route.

i. A walkway shall connect primary entrances with each lot line that abuts a street frontage. No walkway need be provided if that frontage is a restricted access street or a frontage road, unless there is a trail or other pedestrian facility to which access can be provided along the restricted access street or frontage road, in which case a walkway shall connect to that pedestrian facility. The walkway shall be the shortest practical distance between the entrance and the street, and generally no more than 133% of the straight line distance.

ii. All primary building entrances on a site shall be connected by a walkway. This includes multiple primary entrances into one building, and primary entrances in separate buildings on a site.

iii. A walkway shall connect all primary entrances to all bus stops adjacent to the site.

iv. Where abutting property has developed or is likely to develop with a compatible use, the decision-making body may require a walkway from all primary entrances to the lot line nearest the abutting lot, in a location most likely to provide convenient pedestrian access to the (existing or anticipated future) development on the adjacent lot.

***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.

**c. *Walkway Clear Width***

The minimum width of a required pedestrian walkway shall be five feet of unobstructed clear width, excluding vehicular overhang, except where otherwise stated in this title. A walkway that provides access to no more than four residential dwelling units may provide an unobstructed clear width of three feet.

**d. *Walkways and Parking***

i. Where an on-site pedestrian walkway system or required pedestrian area butts a parking lot or internal street or driveway, the pedestrian facility shall be clearly marked and physically separated from the parking lot or drive, through the use of an upright curb of six inches in height,

1 bollards spaced a maximum of six feet apart, or other physical buffer  
2 approved by the traffic engineer; and a change of paving materials  
3 distinguished by color, texture, textured edge, other edge, or striping.

4 **ii.** The vehicle overhang established in table 21.07-9, *Parking Angle, Stall*  
5 *And Aisle Dimensions*, shall not encroach into the minimum required  
6 walkway width or area.

7 **iii.** Where an on-site pedestrian walkway crosses an internal street or  
8 driveway, the crosswalk shall be clearly marked and delineated through  
9 a change in paving materials distinguished by color, texture, textured  
10 edge, other edge, or striping, and shall meet the requirements of the  
11 Americans with Disabilities Act.

12 **5. Trails**

13 All trails shall connect to the street system in a safe and convenient manner, and shall  
14 meet the following requirements in addition to the standards contained in the *Areawide*  
15 *Trails Plan, Design Criteria Manual (DCM)*, and *Municipality of Anchorage Standard*  
16 *Specifications (MASS)*:

17 **a.** All trail connections shall be well-signed with destination and directional signing  
18 as approved by the traffic engineer.

19 **b.** All trails shall connect origin and destination points such as residential areas,  
20 schools, shopping centers, parks, etc.

21 **c.** Trails shall be designed in such a manner that motor vehicle crossings can be  
22 eliminated or significantly minimized.

23 **6. Use and Maintenance of Sidewalks, Walkways, and Trails**

24 **a. *Restrictions on Use***

25 Sidewalks, walkways, and trails are intended to provide pedestrian access.  
26 Vehicle parking, ~~required snow storage for vehicle areas~~, garbage containers,  
27 merchandise storage or display, utility boxes and poles, signs, trees, and other  
28 obstructions shall not encroach into the required minimum clear width of any  
29 required sidewalk, trail, walkway, or other pedestrian way. Pedestrian amenities  
30 including bollards are exempt from this requirement.

31 **b. *Maintenance and Snow Removal***

32 Sidewalks, ~~trails~~, and walkways required by this title shall be maintained in  
33 usable condition throughout the year in accordance with AMC title 24, including  
34 snow and ice removal as appropriate.

35 **F. Pedestrian Amenities**

36 **1. Purpose**

37 The purpose of this section is to define and provide standards for pedestrian amenities  
38 that may be required or included in a menu of choices to meet a requirement, or listed as  
39 a special feature that can count toward a bonus incentive anywhere in this title. For  
40 example, another section of this title may list a pedestrian amenity as a special feature for  
41 which bonus floor area may be granted. The standards contained in this section give  
42 predictability for applicants, decision-makers, and the community for the minimum  
43 acceptable standards for pedestrian amenities. It also ensures the amenities will improve  
44 and enhance the community to the benefit of all, and respond to the northern latitude

1 climate. This title provides flexibility to encourage and allow for creativity and unique  
2 situations through the alternative equivalent compliance and minor modifications process.

3 **2. Applicability**

4 Pedestrian amenities shall meet the minimum standards of this section in order to be  
5 credited toward a requirement, menu choice, or as a special feature bonus incentive of  
6 this title.

7 **3. Walkway**

8 A walkway is a surface, either improved or not, for the purpose of pedestrian and other  
9 non-motorized use, which connects two points and is not aligned along a vehicular public  
10 right-of-way. A walkway may be in a publicly dedicated pedestrian easement. Examples  
11 include pedestrian connections within one development site, mid-block, between  
12 subdivisions, or leading from streets to public amenities, such as schools or parks.

13 **a.** A walkway shall have a minimum unobstructed clear width of five feet, except  
14 where otherwise stated in this title. A walkway that provides access to no more  
15 than four residential dwelling units may have an unobstructed clear width of three  
16 feet.

17 **b.** Walkways shall be hard-surfaced in accordance with subsection 21.08.050H.

18 **4. Primary Pedestrian Walkway**

19 A primary pedestrian walkway is designed to be wide enough for two couples to pass,  
20 with additional space incorporating features along the walkway such as storefront  
21 sidewalk space, room for residential stoops or foundation plantings, and peripheral space  
22 that accommodates landscaping, furniture, and utilities.

23 **a.** A primary pedestrian walkway shall be developed as a continuous pedestrian  
24 route extending for at least 50 feet.

25 **b.** A primary pedestrian walkway shall have an unobstructed clear width of at least  
26 eight feet. Where adjacent to a ground level building elevation it shall also have  
27 a two-foot wide sidewalk storefront zone, or seating and transition pedestrian  
28 spaces, or a foundation landscaping strip. In addition, a buffer space of at least  
29 four feet in width shall be incorporated as part of the walkway when abutting any  
30 street or vehicle area, to accommodate street trees, landscaping beds, light  
31 poles, utilities, benches, and other objects to be kept clear of the walkway.

32 **c.** A primary pedestrian walkway shall be buffered from moving vehicle traffic by on-  
33 street curb parking or a 10 foot wide landscaping/utility strip.

34 **d.** At least two of the following pedestrian features shall be provided for every 50  
35 feet of length along a primary pedestrian walkway: formal seating, such as  
36 benches, which accommodates at least two people; informal seating, such as  
37 steps or low walls, which accommodates at least four people; and spaces  
38 suitable for standing and talking which include objects to lean against or edge  
39 spaces along irregular building facades.

40 **e.** A primary pedestrian walkway shall be illuminated with pedestrian scale lighting.

41 **f.** A primary pedestrian walkway shall directly connect to surrounding public streets  
42 and sidewalks, and be publicly accessible at all times.

1 **5. Ice-free (Heated) Walkway**

2 An ice-free (heated) walkway has a heated surface for the full extent of the walkway clear  
3 width. The walkway shall be maintained as ice-free at all times in areas required to be  
4 publicly accessible, and otherwise during all hours of operation of an establishment.

5 **6. Plaza or Courtyard**

6 A plaza is an open space which is designed to be used for relaxation, conversation,  
7 eating, or other outdoor activities.

8 **a.** A plaza shall contain at least one pedestrian feature for each 200 square feet of  
9 plaza or courtyard area. Pedestrian features include formal seating such as  
10 benches or chairs which accommodate at least two people; informal seating such  
11 as steps, pedestals, low walls, and similar areas suitable for sitting, which  
12 accommodate at least four people; 10 landscaping units; and objects such as  
13 fountains, kiosks (no more than one), and art work.

14 **b.** A plaza shall be visible and directly accessible from the public sidewalk and at no  
15 point be more than five feet above nor more than 12 feet below the curb level of  
16 the nearest street.

17 **c.** A plaza shall be unobstructed to the sky except for certain permitted obstructions  
18 such as canopies or awnings, landscaping, or ornamental features such as  
19 fountains and flag poles.

20 **d.** A plaza shall be positioned so that it receives at least four hours of direct or  
21 reflected sunlight on March 21 and September 21.

22 **7. Housing Courtyard**

23 A housing courtyard may be created when a multifamily building or buildings are  
24 arranged or configured to enclose and frame a common private open space. To receive  
25 credit as a housing courtyard, the space shall achieve the following:

26 **a.** The residential building(s) shall enclose a clearly defined courtyard open space.  
27 The structure(s) surrounding the housing courtyard may, for example, form an O,  
28 L, or U shaped enclosure.

29 **b.** A courtyard shall incorporate at least 50% of the common private open space  
30 required for the development by section 21.07.030, up to a maximum  
31 requirement of 2,000 square feet.

32 **c.** The minimum inside dimension of a housing courtyard shall be 15 feet on lots up  
33 to 60 feet wide, and 20 feet on all other lots, exclusive of balconies, porches, or  
34 private open spaces exclusively serving individual dwelling units.

35 **d.** A courtyard shall be easily accessed from the street. At least a portion of a  
36 courtyard shall be visible from the street. A courtyard may be up to four feet  
37 above natural grade (for example, if it is over an underground parking structure).

38 **e.** A courtyard shall comply with the plaza requirement for pedestrian features, and  
39 with the common private open space standards of section 21.07.030.

40 **f.** All individual dwelling units around the perimeter of a courtyard shall have  
41 windows, entrances, and/or transitional spaces such as porches or balconies that  
42 face the courtyard.

1 **g.** For purposes of sunlight access and wind protection, the height of the enclosing  
2 or surrounding building(s) shall not exceed 45 feet. A perimeter structure may be  
3 taller if stepped back at a ratio of at least five feet of run for every three feet of  
4 rise above 45 feet, on at least 65% of the courtyard perimeter.

5 **h.** A courtyard shall have a solar orientation as defined by this title in terms of  
6 openings in the courtyard and the lower height of surrounding buildings.

7 **i.** To attain wind protection benefits of enclosed space, the width and length  
8 dimensions of a courtyard shall be no greater than four times the height of the  
9 surrounding building(s).

10 **8. Transit Stop or Transit Shelter**

11 A transit stop or transit shelter shall meet or exceed the minimum design standards  
12 established by the transit facilities design guidelines in the *Design Criteria Manual*.

13 **9. Pedestrian Shelter such as a Canopy, Awning, or Marquee**

14 A pedestrian shelter is a roof-like structure extending out from the building face that  
15 provides year round overhead protection from precipitation and wind, and that can  
16 provide visual interest and wayfinding orientation to primary entrances, passenger  
17 loading areas, or waiting areas. Pedestrian shelter may be composed of awnings,  
18 canopies, marquees, cantilevered overhangs, colonnades, or similar overhangs along the  
19 pedestrian route.

20 **a.** A pedestrian shelter shall have a minimum dimension of six feet measured  
21 horizontally from the building wall, or shall extend to a line two feet from the curb  
22 line of the street or nearest motor vehicle area, whichever is less.

23 **b.** A pedestrian shelter shall have a minimum vertical clearance of eight feet and a  
24 maximum vertical clearance of 12 feet, except that a pedestrian shelter that  
25 projects out more than eight feet measured horizontally from the building wall  
26 shall have a maximum vertical clearance of 16 feet.

27 **c.** A pedestrian shelter may be indented as necessary to accommodate street trees,  
28 landscaping beds, street lights, bay windows, or similar building accessories. A  
29 pedestrian shelter shall not extend out to within three feet of the centerline of a  
30 street tree.

31 **d.** A pedestrian shelter shall incorporate architectural design features of the building  
32 from which it is supported.

33 **10. Arcade (or Building Recess)**

34 An arcade is a covered passageway created by the overhanging upper portion of the  
35 building along a sidewalk or walkway to provide a sheltered area at grade level. An  
36 arcade is usually separated from the adjacent street, sidewalk/walkway, or pedestrian  
37 space by a line of supporting columns or arches. A ground level building recess without  
38 supporting columns may also receive credit if it achieves the following standards:

39 **a.** An arcade shall be developed as a continuous covered space extending for a  
40 length of at least 50 feet along a street, plaza, or courtyard or other pedestrian  
41 open space. An arcade shall be open for its entire length to the street or  
42 pedestrian open space, except for building columns.

- 1                   **b.**     An arcade shall have a minimum vertical clearance of no less than 12 feet, and  
2                   on average no greater than 18 feet.
- 3                   **c.**     An arcade shall have a minimum horizontal walkway clear width of eight feet  
4                   between the building and any supporting columns, and a maximum covered  
5                   width of 20 feet.
- 6                   **d.**     An arcade shall not at any point be above the level of the adjacent sidewalk,  
7                   walkway, or pedestrian open space (whichever is higher). The width and spacing  
8                   of the supporting columns shall be such that maximum visibility is maintained.
- 9                   **e.**     The spacing and rhythm of the supporting columns shall relate to the structural or  
10                  architectural pattern of the building and shall be consistent along the length of the  
11                  arcade.
- 12                  **f.**     No off-street parking spaces, passenger loading zones, driveways, or off-street  
13                  loading berths are permitted anywhere within an arcade or within 10 feet of any  
14                  portion thereof, unless the decision-making body determines that such activity  
15                  will not adversely affect the air quality or functioning of the arcade. In no event  
16                  shall such vehicular areas be eligible for credit as part of the arcade.
- 17                  **g.**     An arcade shall be publicly accessible at all times.
- 18                  **11.     Atrium, Galleria, or Winter Garden**  
19                  An atrium, galleria, or winter garden is a publicly accessible sunlit interior space suited for  
20                  year-round public use, and which takes advantage of windows and sunlight access to  
21                  provide brightness, orientation, and visual connections to the outdoors.
- 22                  **a.**     An atrium shall be developed and maintained as a temperature controlled,  
23                  publicly accessible space furnished with features and amenities that encourage  
24                  its use.
- 25                  **b.**     An atrium shall contain at least one pedestrian feature for each 200 square feet  
26                  of gross floor area. Pedestrian features include formal seating such as benches  
27                  or chairs which accommodate at least two people; informal seating such as  
28                  steps, pedestals, low walls, and similar areas suitable for sitting which  
29                  accommodate at least four people; 10 landscaping units; and objects such as  
30                  fountains, kiosks (no more than one), and art work.
- 31                  **c.**     An atrium shall be co-located with primary entrances and pedestrian activity  
32                  areas, and either adjoin or directly connect to a publicly accessible sidewalk or  
33                  open space.
- 34                  **d.**     The publicly accessible portion of the atrium shall be at least 400 square feet,  
35                  with a minimum dimension of 16 feet.
- 36                  **e.**     At least half of an atrium's ceiling area and at least a portion of its wall area shall  
37                  consist of transparent glazing.
- 38                  **f.**     An atrium shall be exposed to direct an/or reflected sun for at least four hours  
39                  daily for eight months of the year.



1 **12. Sun Pocket (or Sun Trap)**

2 A sun pocket or sun trap is a pedestrian space that captures direct and reflected sunlight.  
3 A sun pocket shall be a clearly defined open space partly sheltered by building walls,  
4 fences, or landscape features, such as a C, L, or U shaped semi-enclosure. The  
5 protected space shall contain at least 250 square feet of pedestrian area that is exposed  
6 to direct and reflected sunlight access for at least six hours on March 21 and September  
7 21.

8 **13. Reflected Sunlight**

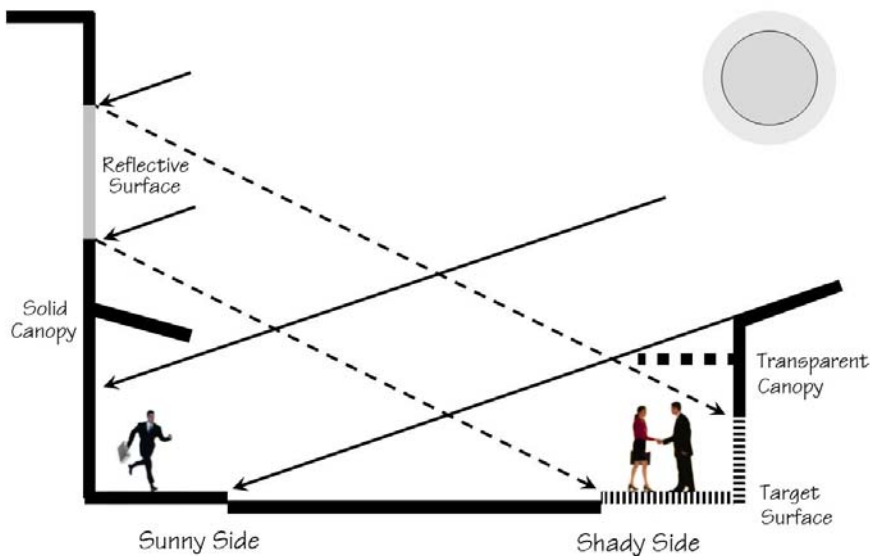
9 Reflected sunlight as a pedestrian amenity is created by a light-colored, partially  
10 reflective, upper-story façade surface that redirects sunlight radiation to pedestrian  
11 spaces and walkways to brighten or increase the comfort level in those spaces.

12 a. The reflective façade surface shall have a solar orientation.

13 b. The reflective façade surface shall have a reflectance of at least 50% and no  
14 greater than 75% in order to avoid excessive glare.

15 c. The reflective façade surface shall be an upper floor above ground-level.

16 d. Reflected sunlight shall fall on at least 400 square feet of a publicly accessible  
17 walkway, open space, and/or abutting ground-level wall area for at least four  
18 hours on March 21 and September 21.



19 **14. Sheltered Transition Space**

20 A sheltered transition space is an outdoor or glass covered space such as café seating  
21 along a building façade that provides a comfortable transition between indoor areas and  
22 unsheltered outdoor spaces.  
23

24 a. A sheltered transition space shall be a minimum of 400 square feet.

25 b. A sheltered transition space shall comply with the dimensional standards for  
26 pedestrian shelter or arcade.

1 **c.** A sheltered transition space shall contain a minimum of one pedestrian feature,  
2 such as formal seating, informal seating, a tree, planter, fountain, kiosk, bollard to  
3 lean on, bike rack, or art work for each 80 square feet of gross floor area.

4 **d.** A sheltered transition space shall not obstruct the minimum clear width of the  
5 adjoining walkway or sidewalk.

6 **15. Bicycle Parking Facilities**

7 **a.** Bicycle parking shall be located in an area visible from a primary entrance area  
8 and no farther from a primary entrance than the closest motor vehicle parking  
9 space. It may also be located inside the building served, in a location that is  
10 easily accessible for bicycles.

11 **b.** Bicycle parking shall not obstruct pedestrian walkways, building access, or use  
12 areas.

13 **21.07.070 NEIGHBORHOOD PROTECTION STANDARDS**

14 **A. Purpose and Relationship to Other Requirements**

15 This section provides for transitions between nonresidential and residential uses, through  
16 discretionary approval criteria that may be applied in combination with other development  
17 standards in this chapter 21.07, in order to provide significantly more protection for  
18 neighborhoods from the impacts of adjacent development. This section makes available a menu  
19 of additional tools to use in discretionary approvals to protect residential neighborhoods from  
20 potential adverse impacts of adjacent nonresidential uses, including limitations on hours of  
21 operation, noise, and lighting.

22 **Height Transitions for Neighborhood Compatibility (moved to 21.06)**

23 **1. Purpose**

24 ~~The objective of the height transition standard is to help ensure compatibility between~~  
25 ~~nonresidential development and adjacent residential districts, in terms of building bulk~~  
26 ~~and scale, degree of sunlight access and daylighting, and visual buffering.~~

27 **2. Applicability**

28 ~~This standard shall apply to all nonresidential development in all nonresidential zoning~~  
29 ~~districts, except that nonresidential structures adjacent to the RM-4 district are exempt.~~

30 **3. Standard**

31 ~~Structures shall not intercept a 30-degree daylight plane inclined into a nonresidential~~  
32 ~~district, from a height of 10 feet above existing grade at the nearest setback line of any~~  
33 ~~adjacent lot zoned for residential use.~~

34 **B. Nonresidential Development Adjacent to Existing Residential Use**

35 As a condition of the approval of any conditional use permit, site plan review, subdivision, or  
36 variance of any nonresidential use located in or within 300 feet of any residential district, the  
37 decision-making body shall be authorized to impose conditions that are necessary to reduce or  
38 minimize any potential adverse impacts on residential property. Such conditions may include but  
39 are not limited to the following:

40 **1.** Hours of operation and deliveries;

- 1           2.     Location on a site of activities that generate potential adverse impacts on adjacent uses,  
2           such as noise and glare;
- 3           3.     Placement of trash receptacles, compactors, or recycling;
- 4           4.     Location and screening of loading and delivery areas;
- 5           5.     Lighting location, design, intensity, and hours of illumination;
- 6           6.     Placement and illumination of outdoor vending machines, telephones, or similar outdoor  
7           services and activities;
- 8           7.     Additional landscaping and screening to mitigate adverse impacts;
- 9           8.     Height restrictions to preserve light and privacy and views of significant features from  
10          public property and rights of way;
- 11          ~~Preservation of natural lighting and solar access;~~
- 12          9.     Ventilation and control of odors and fumes; and
- 13          10.    Paving to control dust.

14   **C.     Residential Development Adjacent To Existing Nonresidential Use**

15           When a residential development is proposed adjacent to an existing commercial or industrial use,  
16           the decision-making body may impose neighborhood protection standards, including but not  
17           limited to increased landscaping, traffic calming measures, and requiring the residential  
18           development to be configured and dwelling units located to minimize potential conflicts with or  
19           adverse impacts from the existing nonresidential industrial development. Any required mitigation  
20           measures shall be installed and maintained by the residential development, not the existing  
21           commercial or industrial use.

22   **21.07.080     LANDSCAPING, SCREENING, AND FENCES**

23   **A.     Purpose**

24           This section is intended to ensure that new landscaping and the retention of existing vegetation is  
25           an integral part of all development and that it contributes added high quality to development,  
26           retains and increases property values, and improves the environmental and aesthetic character of  
27           the community. It is also the intent of this section to provide flexible requirements that encourage  
28           and allow for creativity in landscape design. Specific purposes include to:

- 29          1.     Improve the general appearance of the municipality, its aesthetic appeal and identity, and  
30          the image of its street corridors and urban districts;
- 31          2.     Encourage a pleasant visual character for new development which recognizes aesthetics  
32          and safety issues;
- 33          3.     Unify development and enhance and define public and private spaces;
- 34          4.     Improve compatibility between land uses by reducing the visual and operational impacts  
35          of more intensive uses upon adjacent properties;

- 1 5. Promote the use of existing vegetation and retention of ~~the municipality's~~ trees,  
2 woodlands, **habitat**, and urban forest;
- 3 6. Reduce runoff and erosion, control dust, and preserve air and water quality; and
- 4 7. Encourage use of native plants or provide landscaping that is compatible with the climate  
5 and natural setting of the municipality and can provide desired effects even during harsh  
6 urban and winter conditions.

7 **B. Exemption for Temporary Uses Applicability**

8 ~~All development, unless specifically exempted in this section 21.07.080 shall comply with the~~  
9 ~~landscaping and screening standards of this section 21.07.080. Additional landscaping may be~~  
10 ~~required by other standards set forth in this title. Except where specifically stated otherwise, the~~  
11 ~~following development is exempt from the requirements of this section:~~

12 ~~Individual single family, two family, and townhouse residential dwellings on separate lots that~~  
13 ~~existed prior to [effective date of title], where such residential use is the primary use on the lot;~~

14 ~~New single family, two family and townhouse subdivisions with fewer than 2 lots and 2 dwellings;~~  
15 ~~and~~

16 **Unless required under section 21.05.080, t**Temporary uses in accordance with section 21.05.080  
17 **are exempt from the requirements of this section,** ~~except that landscaping and/or screening may~~  
18 ~~be required pursuant to the provisions for the specific temporary use in section 21.05.080.~~

19 **C. Landscaping Plan**

20 All landscaping and screening required under this section 21.07.080 shall be reflected on a  
21 **landscaping plan. All development, except for single- and two-family homes on individual lots,**  
22 **shall have a landscape plan prepared by a licensed landscape architect registered by the state of**  
23 **Alaska or another design professional as allowed by state legislation. The landscape plan shall**  
24 **be** reviewed and approved by the decision-making body. **A landscape** ~~Such~~ plan may be  
25 combined with any land **clearing clearance**, vegetation protection, erosion control, or snow  
26 removal plan required for compliance with other sections of this title. Where a landscaping plan  
27 is required under this title, the plan shall include the information specified in the title 21 user's  
28 guide.

29 **D. Alternative Equivalent Compliance**

30 ~~The standards of this section 21.07.080 are intended to encourage development which is~~  
31 ~~economically viable and allow creative solutions while achieving the intent of this section. Site~~  
32 ~~conditions may arise where normal compliance is impractical or impossible, or where the~~  
33 ~~maximum achievement of the municipality's objectives can be obtained through alternative~~  
34 ~~compliance. The alternative equivalent compliance procedure set forth in subsection 21.07.010D.~~  
35 ~~may be used to propose alternative means of complying with the intent of this section. Any~~  
36 ~~proposed alternative landscaping and screening shall be equal to or greater than normal~~  
37 ~~compliance in terms of quality, durability, hardiness, and ability to fulfill the standards of this~~  
38 ~~section. In order to be considered for alternative equivalent compliance, one or more of the~~  
39 ~~following landscaping-specific conditions shall be met:~~

- 40 1. Topography, soil, vegetation, or other site conditions are such that full compliance is  
41 impossible or impractical; ~~or~~

2. Improved environmental quality would result from the alternative compliance;

~~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 district-specific standards of chapter 21.04 or the use-specific standards of chapter 21.05 ~~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 of chapter 21.04 or 21.05 and the requirements of this section 21.07.080, the more restrictive ~~use-specific~~ provisions shall govern.

#### F. Landscaping

##### 1. General Description of Landscaping Requirements

Four types of landscaping 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 perimeter enhancement landscaping, (2) parking lot site perimeter landscaping, (3) site enhancement parking lot landscaping, and (4) trees requirements for new residential development. 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 21.07.080G, *Landscaping Plan*, unless exempted by the terms of these sections. The site perimeter, parking lot, site enhancement, and tree landscaping ~~Requirements~~ for these landscaping types are set forth in subsections 21.07.080F.5., 6., 7., and 8. below.

##### 2. Determining Required Landscaping

a. Both existing ~~trees and shrubs~~, and newly installed landscaping trees, shrubs, groundcovers, and hardscape materials are assigned a unit value in table 21.07-1. Table 21.07-3 provides the number of units per linear foot of frontage that is required for each level of site perimeter landscaping, as well as the minimum width and minimum average widths of the landscaped areas. Other types of landscaping state the units per square foot that is required to be installed in a certain area.

b. By multiplying the applicable frontage or area by the units required per linear or square foot, the total number of required units is reached. If the resultant number contains a fraction, the next highest whole number shall be used. Applying any secondary requirements of the landscaping type (for example, a minimum number of units required to be trees), the landscape designer may choose the allocation of landscape units from table 21.07-1 and arrange them in the landscape area as he or she sees fit.

c. In some instances, landscaping or screening requirements for a particular area, such as a fence requirement, may exceed the minimum perimeter unit requirement listed in table 21.07-3.

**3. Shared Credit among Landscaping Types**

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

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

~~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;~~

- b. Trees retained or planted as part of a tree requirement **under 21.07.080F.8**, may count toward other **types kinds** of landscaping **required under subsections 21.07.080F.5 through F.7.**, where the tree location coincides with the required **landscape areas**;

- c. Where one **type kind** of required landscaping area coincides with another, the stricter provisions shall apply **unless otherwise specified in this section**; and

- d. 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.

**4. Landscape Units Awarded**

To provide for flexibility, allow design creativity, and encourage ~~use of larger trees and~~ retention of **existing trees on a site** ~~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 **listed in table 21.07-1 below**, as follows:

TABLE 21.07-1: LANDSCAPE UNITS AWARDED		
Landscape Material	Landscape Units Awarded	
	Newly Installed	Existing Retained
<del>Landmark or Signature tree</del> [1]	n/a	<b>25</b> <del>16</del>
Evergreen tree, >10 ft high	<b>12</b> <del>8</del>	<b>15</b> <del>14</del>
Evergreen tree, >8 – 10 ft high	<b>9</b> <del>8</del>	11
Evergreen tree, 6 – 8 ft high	6	<b>8</b> <del>9</del>
<del>Deciduous Tree, &gt; 8" caliper</del>	n/a	14
Deciduous tree, >4" <b>and greater</b> <del>– 8" caliper</del> [2]	<b>20</b> <del>n/a</del>	<b>20</b> <del>14</del>
Deciduous tree, > <del>3</del> <b>2.5</b> <del>– 4" caliper</del> [2]	<b>12</b> <del>7</del>	<b>15</b> <del>7</del>
<b>Deciduous tree, 2.5" caliper</b> [2]	<b>8</b>	<b>10</b>
Deciduous Tree, <del>1.5" – 2.5" caliper</del> or multi-stem <del>(at least one stem at 2" caliper)</del> [2]	4	<b>5</b> <del>4</del>
<b>Deciduous shrubs, 36" high</b>	1	1.2
<b>Deciduous shrubs, 24" high</b>	0.8	<b>n/a</b> <del>0.9</del>
<b>Deciduous shrubs, 18" high</b>	0.5	<b>n/a</b> <del>0.6</del>
<b>Evergreen shrub, 10" to 18" high</b>	<b>1</b>	<b>n/a</b>
Perennials/ground cover <del>(per #1 container)</del>	<b>0.25 per container</b>	<del>1 per 400 sq ft</del>

TABLE 21.07-1: LANDSCAPE UNITS AWARDED		
Landscape Material	Landscape Units Awarded	
	Newly Installed	Existing Retained
Annual flower bed	1 per 400 sq ft	
Topsoil (4" depth) and seeding lawn grass	1.2 per 100 sq ft	1 per 800 sq ft
Flower basket support	0.2 per basket	
Earthen berm, minimum 18" high	0.15 0.05 per linear foot	
Hardscape Material	Units Awarded	
Decorative (Ornamental) screening fence (between 4 ft. and 6 ft. high)	0.3 0.20 per linear foot	
Ornamental metal fence (3 to 4 feet high)	1.7 per linear foot	
Ornamental wall (approx. 3 feet high)	1.6 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	
Decorative seat walls (approx. 18" high)	2 per linear foot	
Ornamental pavers	0.12 per sq ft 1 per 250 sq ft	
Landscape boulders, with at least 3' x 3' or greater in height above grade level	2 4 per boulder	
Seating	0.40 per linear foot	
Landscape lighting, sculpture, art, water feature, winter city feature, and/or gazebo or similar sheltering structure/landmark	As determined by UDC, per 21.07.080G.1.c.	
Retained Existing Vegetation Mass [3]	Bonus Landscaping Units Awarded [4]	
300+ square feet with a minimum of 3 deciduous trees including deciduous trees of (4" caliper or greater), 3 and/or evergreen trees of at least (minimum 6 feet in height high) or any combination thereof	15%	
500+ square feet with a minimum of 5 deciduous trees including deciduous trees of (4" caliper or greater), 5 and/or evergreen trees of at least (minimum 6 feet in height high) or any combination thereof	20%	
800+ square feet with a minimum of 8 deciduous trees including deciduous trees of (4" caliper or greater), 8 and/or evergreen trees of at least (minimum 6 feet in height high) or any combination thereof	25%	
<b>NOTES:</b>		
[1] Refer to the definition of a "landmark tree" in chapter 21.14. A written statement from a municipal arborist is required to qualify a tree as a landmark tree and to indicate if the tree is healthy and will likely survive given the activities that will be occurring around it.		
[2] Measurements of caliper are described in the definition of "caliper" in chapter 21.14. If a tree caliper measurement is in-between the tree caliper categories of this table, the next lower tree caliper category shall be used.		
[3] Points awarded for retained vegetation in perimeter buffers may only be applied in the buffer area along the same to the lot line, or street frontage, or interior area where the vegetation is found. A written statement from a municipal arborist is required to indicate if the retained trees are healthy and will likely survive given the activities that will be occurring around them.		
[4] In order to determine the amount of bonus landscaping units, determine the total landscape unit value of eligible trees within a retain vegetation mass. Multiply this total landscape unit value times the percentage indicated to obtain the number of bonus landscaping units.		

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. 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 the municipality'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. The intent of each level is described below:

i. **L1 Edge Treatment**

Edge Treatment perimeter landscaping is typically used to define the boundary between two parcels in intensely developed areas, and to define the perimeter of small parking lots located within the DT districts parking areas within parking lots. It is applied where a minimal visual break or buffer is adequate to soften the impacts of a use. It consists of ground covers, perennials, wildflowers, shrubs, trees, fencing, walls, and/or other hardscape elements.

ii. **L2 Visual Enhancement Buffer**

Visual enhancement 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 between certain land uses, on the perimeter of parking areas, and along streets, where it and helps to frame the municipality's streetscapes with consistent treatments of trees and vegetation. ~~It is the narrowest buffer that provides enough planting bed width for trees.~~

iii. **L3 Buffer Separation**

Buffer 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 in accordance with table 21.07-2, except for the following:

i. ~~a~~At approved points of pedestrian or vehicle access;

ii. On individual single-family and two-family lots that are not being developed as part of a subdivision; and

iii. For buildings accessory to a single-family or two-family use, in accordance with table 21.07-2 as follows:



**TABLE 21.07-2: APPLICABILITY OF SITE PERIMETER LANDSCAPING**

**Required Level of Site Perimeter Landscaping (Levels 2, 3, or 4)**

<b>Abutting District or Street</b> <b>District Of Proposed Development</b>	<b>R-6, R-8, R-9, R-10, TA</b>	<b>R-1, R-1A, R-2A, R-2D, R-5, R-7</b>	<b>R-2M, R-2F</b>	<b>R-3, R-4, R-4A</b>	<b>PLI</b>	<b>NMU, CMU, B-1A</b>	<b>RMU, MT-1, MT-2</b>	<b>B-3, RO</b>	<b>I-1, MC</b>	<b>I-2, MI</b>	<b>Freeway [1]</b>	<b>Arterial, Expressway</b>	<b>Collector</b>	<b>Local Street</b>
<b>R-6, R-8, R-9, R-10, TA</b>						<u>L2</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L4</u>			
<b>R-1, R-1A, R-2A, R-2D, R-5, R-7</b>						<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L4</u>	<u>L3</u>	<u>L2</u>	
<b>R-2M, R-2F</b>	<u>L2</u>	<u>L2</u>				<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L4</u>	<u>L3</u>	<u>L2</u>	
<b>R-3, R-4, R-4A</b>	<u>L3</u>	<u>L2</u>				<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L4</u>	<u>L3</u>	<u>L2</u>	<u>L2</u>
<b>PLI</b>	<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>		<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L4</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>
<b>NMU, CMU, B-1A</b>	<u>L2</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>				<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L4</u>			
<b>RMU, MT-1, MT-2</b>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>					<u>L2</u>	<u>L2</u>	<u>L4</u>			
<b>B-3, RO</b>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L2</u>	<u>L2</u>			<u>L2</u>	<u>L2</u>	<u>L4</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>
<b>I-1, MC</b>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>		<u>L2</u>	<u>L2</u>	<u>L2</u>			<u>L4</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>
<b>I-2, MI</b>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>		<u>L2</u>	<u>L2</u>	<u>L2</u>			<u>L4</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>
<b>PR</b>	<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>				<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L4</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>
<b>AF</b>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L3</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>	<u>L2</u>						

**NOTES:** [1] L4 screening landscaping requirements along freeways shall apply to any lot abutting the right-of-way of a freeway designated in the *Official Streets and Highways Plan*, 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. Lots abutting the following freeway segments are subject to L4 screening landscaping requirements of this section: 1) Seward Highway between Tudor Road and Potter Road; 2) Glenn Highway between Boniface Parkway to the military reservation boundary; and 3) Minnesota Drive/O'Malley Road between International Airport Road and the Old Seward Highway. The L4 screening landscaping requirements do not apply to the following: A) any lot whose area, less the 30 foot setback area for the L4 screening area, is less than the minimum lot area required in the zoning district; or B) any lot whose depth, excluding all setbacks required by this title, is less than 100 feet.

**TABLE 21.07-2: APPLICABILITY OF SITE PERIMETER LANDSCAPING**

District of Proposed Development	Required Level of Site Perimeter Landscaping (Level 2, 3, or 4)											
	RS-2, RL-1 to RL-4, TA, W	RS-1, RT, RM-1, RM-2	RM-3, RM-4, OC	CBD (1,2,3), RMU	NC, NMU, CMU	MMU	AC, I-1, IC	DR	Freeway	Collector	Arterial/Express	Keyway
RS-2, RL-1 to RL-4, TA [1]		L2	L2				L2		L4	L2	L2	
PLI	L3	L2	L2						L4	L2	L3	
RS-1, RT [1]	L2						L2	L4	L2	L2		
RM-1, RM-2 [1]	L3	L2					L2	L4	L2	L2		
RM-3, RM-4	L4	L3					L3	L4	L2	L2		
CBD (1, 2, 3)								L4				
NC, NMU, CMU, OC	L3	L2	L2				L3	L4				
RMU, MMU		L3	L2		L2		L3	L4				
AC	L3	L3	L3	L2	L2	L2	L3	L4	L2	L2		
I-1, IC	L3	L3	L3	L2	L2	L2	L3	L4	L2	L2		
AF	L3	L3	L3	L3	L3	L3		L4	L4	L4		
M, I-2, AD	L4	L4	L4	L3	L3	L3	L2	L4	L4	L2	L2	
Nonresidential use in R-zone	L3	L2	L2				L2	L4	L2	L2		

**NOTES:**  
 [1] Individual single-family, two-family and townhouse residential dwellings on separate lots that existed prior to [effective date of title], or new single-family, two-family and townhouse subdivisions with fewer than 2 lots and 2 dwellings are exempt from site perimeter landscaping requirements.  
 [2] 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.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

**c. Specifications for Site Perimeter Landscaping**

In any area where site perimeter landscaping is required according to table 21.07-2, the planting requirements in table 21.07-3 shall apply. The amount of landscaping required in table 21.07-3 is measured per linear foot of property line or street frontage. Vehicular and pedestrian Access points 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 21.07-3: SPECIFICATIONS FOR SITE PERIMETER LANDSCAPING				
Requirement	L1 Edge Treatment	L2 Visual Enhancement Buffer	L3 Buffer Separation	L4 Screening
Total landscape units required per linear foot of property line or street frontage	0.40-0.30 units per linear foot	0.50-0.40 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	0.10 units per linear foot unless waived by the decision-making body [1] none	0.20-0.25 units per linear foot	0.50-0.60 units per linear foot	1.2-1.5 units per linear foot
Minimum number of landscape units that shall be evergreen trees	none	Allowed but not required none	0.30 units per linear foot	0.9-1.0 units per linear foot
Minimum number of landscape units that shall be shrubs	0.20 units per linear ft, either utilizing a hedge, ornamental or fence, and/or ornamental wall	0.12-0.05 units per linear foot	0.25-0.40 units per linear foot	0.6-0.45 units per linear foot
Planting area width (minimum average)	3 ft	8 ft	15 ft	30 ft.
Planting area width (minimum at any point)	3 ft except a minimum 100 sq ft area is required for each tree	8 ft	12 ft	25-20 ft
[1] The petitioner shall demonstrate to the approving authority that the space on the site is too constrained to install trees. If trees are not required by the approving authority, the landscaping units that would otherwise be used for trees shall be applied to other items listed in table 21.07-1.				

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11

- d. **Additional Standards for Site Perimeter Landscaping**
- i. Minimum width of planting area shall be measured as the width of the planting beds between the back of edge curbing or landscape edging.
  - ii. Where there will be vehicle overhang into the required planting area along any curb edge or wheel stop, add two feet to the required minimum planting area width at these locations.
  - iii. Due to ~~Because of~~ low sun angles and ~~at the municipality'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 landscape units ~~trees~~ shall be evergreen trees, along north lot

lines that abut residential or mixed-use districts, where the lot line runs within 30 degrees of east-west.

iv. If perimeter landscaping includes a fence or wall and abuts a public street right-of-way, the landscape bed shall be located between the fence or wall and the street right-of-way.

v. No sign of any kind, other than one real estate sign per site no larger than six square feet, is permitted along freeways within the planting area of L4 screening perimeter landscaping.

vi. Existing natural vegetation in any required L4 screening perimeter landscaping area shall not be disturbed, but shall be augmented with planted landscaping if that vegetation does not meet the standards for L4 screening. Supplemental plantings shall not disturb existing vegetation, but in the event existing vegetation is disturbed, it shall be restored.

6. **Parking Lot Landscaping**

a. **Purpose**

Parking lot landscaping softens the view and breaks up the visual impact of adds texture to extensive paved surfaces associated with multifamily residential and nonresidential 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.

b. **Applicability of Parking Lot Landscaping**

Parking lot perimeter landscaping requirements shall apply to parking lots with six or more parking spaces that are accessory to any multifamily or nonresidential building or use established, and to parking lots that are the principal use on a site. Parking lot interior landscaping requirements shall apply to parking lots of 20 or more parking spaces.

c. **Perimeter Parking Lot Landscaping**

Perimeter parking lot landscaping shall be required for all applicable parking lots which are adjacent to a lot line on lot edges abutting a public street, a residential district, or an institutional use (except for those institutional uses in the Transportation Facility, Utility Facility, or Telecommunication Facilities use categories per tables 21.05-1 and -2), as provided below. This landscaping shall be provided along applicable lot lines except at approved points of vehicular or pedestrian access, although the entire parking lot frontage, including vehicular or pedestrian access points shall be used to calculate the required landscaping. Where there will be vehicle overhang into the required planting area along any curb edge or wheel stop, add two feet to the required minimum planting area width at these locations.

i. **General Requirement**

The perimeter of a parking area, which includes its appurtenant driveways, shall utilize the following schedule at the lot line indicated:

TABLE 21.07-4: PARKING LOT PERIMETER LANDSCAPING REQUIREMENTS	
Use Of Development Site Based On The Use Of Abutting Or Adjacent Sites	Landscaping Requirement Along The Indicated Lot Line

(A) Nonresidential use abutting a residential use or a nonresidential use adjacent to a residential use directly across an alley.	L3 buffer landscaping
(B) Multifamily residential use abutting a single-family residential use	L3 buffer landscaping
(C) Any side of a parking lot perimeter not addressed in (A) or (B) above. [1]	L2 visual enhancement landscaping
<b>NOTE:</b> [1] For parking lots with less than 40 spaces located in the DT districts, L1 edge treatment landscaping may be used to meet parking lot perimeter landscaping requirements.	

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

**ii. Multiple Lots Developed Together**

Where multiple lots are being developed under a common site plan or a joint parking/circulation plan, the parking lot perimeter landscaping along an interior lot line may be allowed to be shared between the two abutting uses or waived altogether, subject to approval by the director.

The parking lot perimeter landscaping requirement may be satisfied by complying with one of the following options:

- (A) Option 1: L1 Screening as defined in subsection 21.07.080F.5.a.iv. and table 21.07-3; or
- (B) Option 2: L3 Separation as defined in subsection 21.07.080F.5.a.iii. and table 21.07-3, with ornamental fencing. This option shall be available only to parking lots with fewer than 100 spaces, or if less than 70 percent of the parking spaces are located in the front parking area; or
- (C) Option 3: L2 Buffer as defined in subsection 21.07.080F.5.a.ii. and table 21.07-3, with ornamental fencing. This option shall be available only to parking lots with fewer than 40 spaces, or if less than 50 percent of the parking spaces are located in the front parking area.
- (D) Option 4: Where multiple lots are being developed together under a common site plan or a joint parking/circulation plan, the parking lot perimeter landscaping requirement may be waived along an interior lot line.

**iii. Exceptions – Mixed Use Zoning Districts**

- (A) Option 2 from the subsection above is available to any parking lot;
- (B) Option 3 from the subsection above is available to any parking lot in which less than 50 percent of the parking spaces are located in the front parking area.
- (C) L1 Edge Treatment perimeter landscaping as defined in subsection 21.07.080F.5.a.i. and table 21.07-3, may be used to satisfy a parking lot perimeter requirement along interior lot lines. It may also be used to satisfy a parking lot perimeter requirement

1 along a public street frontage, where the street right of way  
2 improvements include a planted landscaping strip that provides  
3 street trees.

4 **iv. Exceptions – Central Business Zoning Districts**

5 L1 Edge Treatment perimeter landscaping as defined in subsection  
6 21.07.080F.5.a.i. and table 21.07-3, may be used to satisfy the parking  
7 lot perimeter requirement.

8 **v. Vehicle Headlight Screening**

9 In order to reduce the impact of obtrusive glare on residences during the  
10 darker months, parking stalls that face an abutting residentially zoned  
11 property shall be screened from the adjacent property by an opaque  
12 fence between 20 and 42 inches in height, measured from the surface of  
13 the parking stall. The director may waive this requirement where the  
14 applicant demonstrates this standard will inhibit needed surveillance, or  
15 that other obstructions or topography satisfy this standard.

16 **vi. Perimeter Landscaped Areas Wider than 20 Feet**

17 For any landscaped areas wider than 20 feet, the required trees and  
18 shrubs shall be located within ten feet of the property line and adjacent  
19 public right of way or sidewalk.

20 **d. Parking Lot Interior Landscaping**

21 **i. Amount Required**

22 Parking lot interior landscaping shall be required for all development with  
23 20 or more exterior surface parking spaces, as follows:

24 **(A) 20 to 100 40 spaces**

25 An area equal to at least five percent of the surface of the  
26 parking area on the site including appurtenant driveways shall be  
27 devoted to landscaping.

28 **(B) More than 100 40 spaces**

29 An area equal to at least 10% of the surface of the parking area  
30 on the site, including appurtenant driveways shall be devoted to  
31 landscaping.

32 **ii. Minimum Landscaping Area Size**

33 The minimum size of any interior planting area shall be eight feet wide  
34 measured from back-of-curb and 150 200 square feet in area.

35 **iii. More Than 30 Spaces in a Single Line**

36 Where there are more than 30 parking spaces in a single line, a parking  
37 lot interior landscaping area of at least eight feet in width and at least the  
38 depth of a parking space shall be used to break up these lines of parking  
39 into component parts of no more than 30 parking spaces in a single line.

40 **iv. Landscaping Break for Every Three Drive Aisles**

41 In parking lots over 100 spaces, for every three drive aisles within the lot,  
42 there shall be a landscaping bed which is at least eight feet wide, parallel  
43 to the drive aisles, and which extends the length of the abutting drive  
44 aisles.

v. *Minimum Stocking Requirements*

In any required interior parking lot landscaping area, a minimum of eight landscape units per 100 square feet (0.08 units per 1-square foot) of planting area shall be provided, with at least half of the landscape units being trees.

*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.~~

*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.~~

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, **to the extent reasonably feasible**, minimize vegetation and solid or semi-open fences between three feet and seven feet above grade. Berms used as part of interior landscaping areas shall not exceed three feet in height.

7. **Site Enhancement Landscaping**

a. **Purpose**

Site enhancement landscaping increases the **number of plant materials** greenery and seasonal color on open areas of a site, **and prevents erosion and dust by covering bare or disturbed areas, and reduces and cleans storm water runoff**. It includes foundation plantings, front, side and rear-yard **plantings** greenery, and common area plantings. It enhances the appearance and function of the building and site and reinforces its continuity with the surrounding properties.

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 **be planted with** ~~provide~~ site enhancement landscaping.

c. **Specifications for Site Enhancement Landscaping**

In any area where site enhancement landscaping is required, a minimum of one landscape unit per 50 square feet (.02 units per 1-square foot) of planting area shall be provided. However, all applicable areas shall, at a minimum, be covered with landscape or hardscape material as provided in table 21.07-1.

8. **Trees**

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

1 urbanized areas of the municipality. Trees are an important characteristic of the  
2 municipality, providing economic support of local property values; enhancing the  
3 municipality's natural beauty and identity; reinforcing the pleasant physical  
4 character of residential neighborhoods; protecting anadromous fish and wildlife  
5 habitat; ameliorating impacts of development on drainage, soil erosion, air  
6 quality, and water quality; sheltering from inclement weather; and providing visual  
7 buffering of urban development.

8 **b. *Applicability of Tree Requirement***

9 The tree requirement applies to new residential development **except for single-**  
10 **and two-family lots that were platted before [effective date of this title].** The tree  
11 requirement does not apply to individual single-family, two-family and townhouse  
12 dwellings on a separate lot that existed prior to [effective date of title], where  
13 such residential use is the primary use on the lot, or to new single-family, two-  
14 family and townhouse subdivisions with fewer than 2 lots and/or 2 dwellings.  
15 Nor does it apply to the removal of dead, diseased or naturally fallen trees or  
16 vegetation, or trees or vegetation that the director finds to be a threat to the  
17 public health, safety, or welfare.

18 **c. *Minimum Tree Density***

19 As defined in table 21.07-1, 165 tree landscape units per acre are required in  
20 new residential developments.

21 i. Up to 35% of the total number of required units may be located within a  
22 separate tract or tracts held in common ownership by a homeowners  
23 association or comparable entity.

24 ii. All individual lots in a subdivision shall have at least **three one trees, with**  
25 **at least one tree located in the front yard of each lot.**

26 **d. *Tree Retention and Planting***

27 Tree density may consist of retained trees, installed trees, or a combination of  
28 retained and installed trees. Trees to be retained shall be depicted on the  
29 landscaping plan. Where site characteristics or construction preferences do not  
30 support tree preservation, tree plantings may be used to satisfy this standard.

31 **e. *Tree Retention Priorities***

32 Priorities for preservation of existing trees are listed below, in order of  
33 descending priority. Landscaping plans should preserve existing trees in the  
34 highest priority category of on-site location possible. No tree retention area used  
35 to meet the requirements of this section may be located in public or private  
36 rights-of-way, utility easements, or visibility clearance areas as defined in **AMC**  
37 **title 9 subsection 21.06.020A.8.**

38 i. **Landmark Signature Trees (as defined in chapter 21.14)**

39 ii. *Sensitive Environmental Areas and Existing Wooded Areas*

40 Sensitive environmental areas and features, including areas with large  
41 numbers of mature trees, areas containing multiple **landmark signature**  
42 trees, wetland areas, stream corridors, the margins of existing lakes or  
43 ponds, natural drainages, wildlife habitat areas, steep slopes, or  
44 geological hazard areas.  
45

46 iii. *Required Perimeter Landscaping Areas*



Areas where site perimeter or parking lot perimeter landscaping is required pursuant to this section 21.07.080.

iv. *Other Individual Trees or Groups of Trees*

**G. General Landscaping Requirements and Standards**

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

**1. Plant Materials**

**a. *Plant Choices and Quality***

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 utilized in meeting landscaping and screening requirements shall be hardy for its selected area as referenced in the user's guide. for required landscaping and screening shall be selected from the *Anchorage Master Tree and Shrub List*, and in all cases the plant materials 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 from the wild or native stands, provided the plants transplanting meets all ANSI Z60.1 standards. Plants listed in the most current edition of the document, *Selected Invasive Plants of Alaska, USDA, Forest Service, Alaska Region*, shall not be used.

***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 the municipality 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 subsection G.3., *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 21.07-1, *Landscape Units Awarded*.

***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 21.07-1. 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.

**b. *Tree Plantings***

Planted and transplanted trees shall be mulched with shredded bark composed mulch or rock mulch at least three 4-inches or more in depth. Species selection

1 and spacing of trees to be planted shall be such that it provides for the eventual  
2 mature size of the trees. Soil type, soil conditions, and other site constraints  
3 shall be considered when selecting species for planting or transplanting.  
4 Evergreen trees installed shall meet ~~the ANSI standard of~~ a minimum 5:3 height  
5 to spread ratio.

6 **2. Planting Location**

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

9 **a. ~~Vehicle Overhang Areas Adequate Distance from Curb and Intersection~~**

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

19 **~~Wind Protection and Sunlight Access~~**

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

27 **b. Utility Easements**

- 28 i. Where required landscaping areas are parallel to utility easements, 50%  
29 of the landscaping area may be located in the utility easement, provided  
30 that any required trees are planted in that part of the landscaping area  
31 that does not coincide with the utility easement. Where a utility  
32 easement crosses a required landscaping area, trees shall not be  
33 planted in the area that coincides with the utility easement.
- 34 ii. The utility must make a good faith effort to provide written notice to the  
35 affected residents at least one week prior to disturbance of the  
36 landscaping, except for power restoration or in case of emergencies  
37 involving life or safety. The utility is not responsible for replacement of  
38 disturbed landscaping within the utility easements, but the utility shall  
39 stabilize the disturbed area ~~to prevent erosion~~.

40 **c. Visibility Clearance Areas**

41 All landscaping and screening materials shall comply with the visibility clearance  
42 requirements of ~~AMC title 9 chapter 21.06.020A.7.~~

43 **3. Planting Beds and Vegetation Areas**

44 **a. Protection of Landscaping**

45 All required landscaped areas, particularly trees and shrubs, shall be protected  
46 from potential damage by adjacent ~~activities and uses~~ ~~such as,~~ including parking  
47 and storage areas. Concrete barrier curbs or other approved barriers at least six

1 inches high shall be provided between vehicular use areas and landscaped  
2 areas. Landscaped areas shall be marked or otherwise made to be visible  
3 during snow removal operations.

4 **b. Tree Retention Area Protection**

5 Tree retention areas used toward landscaping requirements under this section  
6 21.07.080 shall be adequately protected from damage through adherence to the  
7 following:

8 **i. Construction Fence**

9 A construction fence shall be placed around each tree **or grouping of**  
10 **trees** to be retained at or beyond the edge of the **tree protection critical**  
11 **root zone**. The fence shall be placed before construction starts and  
12 remain in place until construction is complete. The fence shall be ~~either:~~

13 ~~(A) 6 foot high orange plastic and be secured to the ground with 8-~~  
14 ~~foot metal posts; or~~

15 six-foot high steel, such as chain link, on concrete blocks.

16 **ii. Development Limitations in Tree Retention Areas**

17 Within the **tree protection critical root** zone of each tree **or grouping of**  
18 **trees**, the following development is not allowed:

19 **(A)** Grade change, excavations, or cut and fill, either during or after  
20 construction;

21 **(B)** New impervious surfaces;

22 **(C)** Utility or drainage field placement;

23 **(D)** Attachment of objects to a tree designated for retention;

24 **(E)** Staging or storage of materials and equipment, vehicle  
25 maneuvering areas, or other activities likely to cause soil  
26 compaction or above-ground damage;

27 **(F)** Placement, storage, or dumping of solvents, soil deposits,  
28 excavated material, concrete washout, or the like.

29 **iii. Subsequent Landscaping Work**

30 Any landscaping done in the **tree protection critical root** zone subsequent  
31 to the removal of construction barriers shall be accomplished with light  
32 machinery or hand labor.

33 **c. ~~Ground Cover Raised Planting Beds~~**

34 ~~All of the landscaped area that is not planted with trees and shrubs shall be~~  
35 ~~planted in ground cover plants, which may include grasses. Ground cover plants~~  
36 ~~shall be planted at a density that will provide continuous ground coverage within~~  
37 ~~three years. Mulch shall be confined to planting beds underneath trees and~~  
38 ~~shrubs and is not a substitute for ground cover plants. Mulch may consist of~~  
39 ~~shredded bark or rock mulch such as river rock with at least a three inch~~  
40 ~~diameter. Raised planting beds are encouraged to increase the durability and~~  
41 ~~effectiveness of landscaping and to protect the landscaping investment. Raised~~

1 ~~planting beds surrounded by a minimum 18-inch high wall may be reduced in~~  
2 ~~width by two feet from the minimum required planting area width of any site~~  
3 ~~perimeter or parking lot perimeter landscaping area. Wall height may be reduced~~  
4 ~~to 12 inches where there will be no vehicle overhang.~~

5 **d. Berms**

6 Berms may be incorporated into any required landscaping or screening area.  
7 Berms for on-site landscaping shall not be placed in a public right of way, and  
8 shall not interfere with natural drainage or cause water to be drained onto streets.  
9 No installed berm shall have a slope of greater than 3:1 **for mown areas or**  
10 **greater than 2:1 for planted berms.**

11 **4. Installation of Landscaping**

12 **a. Timing**

13 All required landscaping and screening shall be installed by the developer. All  
14 landscaping shall be installed before a certificate of zoning compliance is issued.  
15 If a certificate of zoning compliance is requested between September and May,  
16 then the certificate shall be conditioned upon the landscaping being installed  
17 before the following August ~~31~~ **15**.

18 **b. Surety**

19 A letter of credit, escrow, performance bond, or other surety approved by the  
20 municipal attorney for proper installation of the landscaping and equal in value to  
21 **120** ~~125~~% of the value of the **installed** landscaping, as determined by **a bonded,**  
22 **licensed landscape contractor,** ~~the project landscape architecture firm,~~ shall be  
23 **provided to the director prior to the** ~~given upon~~ installation of the landscaping.  
24 **This bond** ~~and~~ shall remain in place with the director for at least 24 months after  
25 installation to ensure survival and proper maintenance of the landscaping in  
26 accordance with this section. After the landscaping has been installed for 24  
27 months, and an inspection has found that **the required landscaping is in good**  
28 **health, the surety shall be released.** **The bonding requirement established in this**  
29 **subsection may be waived for a landscaping area that meets the irrigation**  
30 **standards of subsection G.6.b. below.**

31 **c. Survival**

32 Any landscape element that dies, ~~or is otherwise removed,~~ or is seriously  
33 damaged shall be ~~removed and~~ replaced based on the requirements of this  
34 section before the following August ~~31~~ **15**.

35 **5. Use of Landscaped Areas**

36 Except **for approved points of pedestrian or vehicular access** as provided in subsection  
37 21.07.080F **5.b. above,** ~~and~~ **motor vehicle parking or loading area, driveway,**  
38 **snow storage, or paved area may be located in areas required for landscaping pursuant**  
39 **to this title.**

40 **6. Maintenance and Replacement**

41 **a. Maintenance**

42 Trees, shrubs, ~~and~~ other vegetation, irrigation systems, fences, and other  
43 landscaping, screening, and fencing elements shall be considered as elements of  
44 a development in the same manner as other requirements of this title. The  
45 property owner shall be responsible for regularly maintaining all landscaping  
46 elements in good condition. All landscaping shall, **to the extent reasonably**  
47 **feasible,** be maintained free from disease, weeds, and litter ~~to the extent~~  
48 ~~reasonably feasible.~~ Plants that die shall be replaced in kind. All landscaping,

1 screening, and fencing materials and structures shall be repaired and replaced  
2 when necessary to maintain them in a structurally sound and aesthetically  
3 pleasing condition.

4 **b. Irrigation**

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

- 9 i. A below-ground built-in irrigation system with an automatic controller that  
10 has been installed by a certified irrigation contractor; or  
11 ii. An irrigation system designed and approved certified by a licensed  
12 landscape architect as part of the landscape plan, which provides  
13 sufficient water to ensure that the plants will become established.

14 **H. Screening**

15 **1. Purpose**

16 Screening consists of landscaping, the retention of natural vegetation, or the use of  
17 physical structures to block views of specific activities or specific parts of a property or  
18 structure. Applicants are encouraged to locate the types of features listed in this section  
19 where they are not visible from abutting public streets and abutting uses or lots as  
20 specified below off-site or public areas of a site, so that screening is unnecessary.

21 **2. Refuse Collection**

22 In order to improve the image of the municipality's streets and neighborhoods, to reduce  
23 the visual impacts of multifamily and nonresidential development, and to avoid problems  
24 with blown trash, snow, and pests, refuse collection receptacles shall should be  
25 adequately screened and located in unobtrusive yet convenient locations.

26 **a. Residential Dwellings**

27 Single-family (attached and detached), two-family, townhouse, and three-unit  
28 multifamily dwellings shall not have dumpsters.

29 **b. Standards**

30 **i. Applicability**

31 The following standards shall apply to all refuse collection receptacles of  
32 multifamily residential, public/institutional, commercial, and industrial  
33 uses. Refuse collection receptacles that abut an alley and are not  
34 located directly across the alley from a residential zoning district are  
35 exempted from the screening standards of this subsection. , except for  
36 those located in alleys in the CBD, commercial, industrial, and mixed-use  
37 districts. For purposes of this section, the term "refuse collection  
38 receptacles" includes dumpsters, garbage cans, debris piles, or grease  
39 containers, but does not include public trash receptacles for pedestrians  
40 placed in the right-of-way, public drop-off recycling receptacles, or waste  
41 receptacles for temporary construction sites. This section also does not  
42 apply to refuse collection receptacles such as garbage cans that are  
43 normally stored indoors and brought outdoors on garbage pickup days.

44 **ii. Location**

1 Outdoor refuse collection receptacles shall not be located in a required  
2 front setback, and ~~shall should~~, to the extent reasonable feasible and  
3 depending on the size of the site and need for access by refuse  
4 collection vehicles, be set back from the front plane of the principal  
5 structure. Refuse collection receptacles for nonresidential uses shall not  
6 be located in any setback area which ~~abuts an adjacent~~ abuts a residentially  
7 zoned lot or mixed-use district with a residential use. Refuse collection  
8 receptacles shall not be located within any area used to meet the  
9 minimum landscaping or parking and loading area requirements of this  
10 chapter, or be located in a manner that obstructs or interferes with any  
11 designated vehicular or pedestrian circulation routes onsite.

12 **iii. Screening Enclosure**

13 Each refuse collection receptacle shall be screened from view from  
14 abutting public streets and abutting parcels. If a screening enclosure is  
15 necessary to meet the standards of this subsection, the screening  
16 enclosure shall, at a minimum, consist of ~~on all sides by~~ a durable, three-  
17 sided, sight-obscuring structure enclosure consisting of a solid fence or  
18 wall ~~and gate of~~ no less than ~~between~~ six feet ~~and eight feet~~ in height.  
19 Where the access to the enclosure is visible from abutting public  
20 ~~adjacent~~ streets or abutting residential properties, the access shall be  
21 screened with a sight-obscuring ~~an opaque~~ gate. Gates which swing  
22 open shall have a one-foot height clearance above grade to account for  
23 snow. ~~The walls and gate shall be compatible in architectural design and~~  
24 ~~materials with the principal building(s).~~ The enclosure shall be  
25 maintained in working order, and remain closed except during the day of  
26 trash ~~deposits and pick-ups~~.

27 **iv. Maintenance of Refuse Collection Receptacle**

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

31 **c. Amortization of Nonconforming Refuse Collection Receptacles**

32 Existing dumpsters that are located at residential uses indicated in subsection  
33 21.07.080H.2.a. shall be removed within 180 days from the effective date of this  
34 title. Sites with refuse collection receptacles that are subject to screening  
35 enclosure requirements of subsection 21.07.080H.2.b. shall meet the  
36 requirements of this section ~~Any refuse collection receptacle placed prior to the~~  
37 ~~adoption of this chapter that does not comply with the requirements of this~~  
38 ~~section shall be removed or altered to comply within five years from the effective~~  
39 ~~date of this title.~~

40 **3. Service and Off-Street Loading Areas**

41 **a. Applicability**

42 This standard shall apply to all service and off-street loading areas serving  
43 public/institutional, ~~and commercial,~~ and industrial uses that abut a public street  
44 or a residential zoning district, ~~except that~~ including service and off-street loading  
45 areas in alleys adjacent to a residential district, ~~are exempt, and service and off-~~  
46 ~~street loading areas serving industrial uses that are adjacent to a residential~~  
47 ~~district must comply.~~

48 **b. Standard**

1 In order to mitigate visual and noise impacts on surrounding residential uses and  
2 neighborhoods, non-enclosed service and off-street loading areas shall be  
3 screened with durable, sight-obscuring walls and/or fences of at least between  
4 six feet and eight feet in height. In conjunction with the screening wall or fence,  
5 L2 visual enhancement landscaping shall be used along the extent of the wall or  
6 fence. The L2 landscaping shall be placed in the area between the screening  
7 fence or wall and the property line.

#### 8 Rooftop Mechanical Equipment

##### 9 c. *Applicability*

10 This standard shall apply to all development except for single-family, two-family,  
11 and townhouse development.

##### 12 d. *Standard*

13 Rooftop mechanical equipment, including HVAC equipment and utility equipment  
14 that serves the structure, but not including telecommunications equipment or  
15 solar collectors, shall be screened through the use of parapet walls or a sight-  
16 obscuring enclosure around the equipment. The screening shall be constructed  
17 of one of the primary materials used on the primary facades of the structure, and  
18 be an integral part of the building's architectural design.

19 The parapet or screen shall completely surround the rooftop mechanical  
20 equipment to an elevation equal to or greater than the highest portion of the  
21 rooftop mechanical equipment being screened. Any parapet wall shall have an  
22 elevation of no more than four feet.

#### 23 4. Wall-Mounted Mechanical Equipment and Meters

##### 24 a. *Applicability*

25 This standard shall apply to all development except for single-family, and two-  
26 family, and three-unit multifamily development.

##### 27 b. *Standard*

28 Wall-mounted mechanical equipment, including air conditioning or HVAC  
29 equipment and groups of four three or more utility meters, but not including  
30 intake and exhaust vents, that extends more than six inches or more from the  
31 outer building wall shall be screened from view from abutting public streets; and  
32 from abutting residential, public, and institutional properties; and from public  
33 areas of the site or adjacent sites; through the use of (a) sight-obscuring  
34 enclosures constructed of one of the primary materials used on the primary  
35 façade of the structure, (b) sight-obscuring fences, or (c) trees or shrubs that  
36 block at least 50 80% of the equipment from view. Wall-mounted mechanical  
37 equipment that extends six inches or less from the outer building wall shall be  
38 designed to blend in with the color and architectural design of the subject  
39 building.

#### 40 Ground-Mounted Mechanical Equipment and Utility Fixtures

##### 41 c. *Applicability*

42 This standard shall apply to all development.

##### 43 d. *Standard*

44 Ground-mounted above-grade mechanical equipment shall be screened from  
45 view from streets; from residential, public, and institutional properties; and from  
46 public areas of the site or adjacent sites; through the use of ornamental fences or  
47 screening enclosures, or through the use of trees or shrubs that block at least 80

percent of the view. Screening shall allow for access as required by utility companies. Above-grade ground-mounted utilities are prohibited on sidewalks.

### Outdoor Merchandise Display Areas

Screening shall be required of outdoor merchandise display areas as set forth in section 21.05.070D.16.

### 5. Outdoor Storage Areas

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

## I. Fences

### 1. Applicability

Notwithstanding the exemptions of 21.07.080B., the provisions of this subsection 21.07.080I. 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 construction, emergencies, or special public events or performance areas.

### 2. Location

A fence may be constructed within property boundaries, or at the lot line, subject to the limitations in this section. No fence shall be installed so as to block or divert a natural drainage flow onto or off of any other property.

### 3. Maximum Height

Unless specifically required elsewhere in this title for screening fences, fences shall not exceed the maximum heights set forth below. Such maximum heights shall be measured from the top of any retaining wall, or if no retaining wall has been constructed, then from natural grade. Unless specifically allowed by this title, no fence shall exceed eight feet in height.

a. In the R-1, R-1A, R-2A, R-2D, R-2M, R-2F, R-3, R-4, R-4A, R-5, and R-7 RS-1, RS-2, RT, RM-1, RM-2, RM-3 and RM-4 districts, fences in front setbacks shall not exceed four feet in height.

b. In the R-6, R-8, R-9, and R-10 RL-1, RL-2, RL-3, and RL-4 districts, fences in front setbacks shall not exceed six feet in height if the fencing material is sight-obscuring. Examples of non-sight obscuring fencing include chain-link and split rail fencing.

c. In the B-1A, B-3, R-O, DT, CBD, AC, NMU, CMU, RMU, MT-1, MT-2, MMU, MC, and M districts, fences in front yards shall not exceed three feet in height and shall not exceed eight feet in side or rear yards.

d. Enclosures provided as a part of a permitted tennis court, ball field, or other recreational facility shall be exempt from the height restrictions of this section.

### 4. Through Lots and Corner Lots

In the case of a through lot and a corner lot which abut a street of collector or greater classification, a fence may be constructed within the front setback abutting such classified street, up to a maximum of eight feet in height, provided that vehicular access to the street is prohibited.



1           **5.     Finished Appearance Outward**

2           Whenever any fence will be visible from adjacent streets, and whenever a fence is  
3           installed as part of required **site perimeter or parking lot perimeter** buffering landscaping  
4           and is visible from adjacent properties, it shall be installed so that the more finished side  
5           (i.e., the side with fewer or no visible structural framing or bracing elements) faces  
6           outward from the lot on which it is installed.

7           **6.     Prohibited Materials**

8           Fences made of debris, junk, or waste materials are prohibited, unless such materials  
9           have been recycled and reprocessed into building materials marketed to the general  
10          public and resembling new building materials.

11 **21.07.090     OFF-STREET PARKING AND LOADING**

12 **A.     Purpose**

13          This section establishes off-street parking **and loading** requirements as a necessary part of the  
14          development and use of land, to ensure the safe and adequate flow of traffic in the public street  
15          system, and to ensure that parking areas are designed to perform in a safe, efficient manner. It is  
16          also the intent of this section to attenuate the adverse visual, environmental, and economic  
17          impacts of parking areas. Specific purposes include to:

- 18          1.     Ensure that off-street parking, loading, and access demands will be met without  
19                 adversely affecting other nearby land uses and neighborhoods;
- 20          2.     Provide for vehicle and pedestrian circulation and safety in parking areas, and create a  
21                 safe and more pedestrian-friendly environment;
- 22          3.     Encourage the efficient use of land by avoiding excessive amounts of land being devoted  
23                 to parking and thus unavailable for other productive uses;
- 24          4.     Improve the visual appearance of public street corridors by encouraging buildings and  
25                 other attractive site features to become more prominent relative to parking areas;
- 26          5.     Provide for better pedestrian movement and encourage alternative modes of  
27                 transportation by reducing the expanses of parking that must be traversed between  
28                 destinations;
- 29          6.     Support a balanced transportation system that is consistent with cleaner air and water,  
30                 greater transportation choices, and efficient infill and redevelopment; and
- 31          7.     Allow flexibility in addressing vehicle parking, loading, and access issues, including  
32                 providing alternatives to standard required surface parking.

33 **B.     Applicability**

34          **1.     Generally**

- 35          a.     The off-street parking and loading standards of this section 21.07.090 shall apply  
36                 to all **development in the municipality including changes of use.** ~~parking lots and~~  
37                 ~~parking structures accessory to any new building constructed and to any new use~~  
38                 ~~established in every district.~~

1           b.       Except for the off-street loading requirements of subsection 21.07.090F., all other  
2                   requirements of this section shall apply to Girdwood unless specifically  
3                   preempted in chapter 21.09.

4                   ~~The off-street parking requirements set forth in subsection 21.07.090D shall not apply in~~  
5                   ~~the CBD Districts. However, all other standards of this section 21.07.090 shall apply to~~  
6                   ~~the CBD Districts.~~

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

10           **2.       Expansions, Relocations, and Enlargements**

11                   A site to which a building is relocated shall provide the required parking and loading  
12                   spaces. An expansion or enlargement that is an increase in the floor area or other  
13                   measure of off-street parking and loading requirements shall provide spaces as required  
14                   for the increase. ~~The off-street parking and loading standards of this section shall apply~~  
15                   ~~when an existing structure or use is expanded or enlarged. Additional off-street parking~~  
16                   ~~and loading spaces shall be required to serve the enlarged or expanded area, provided~~  
17                   ~~that in all cases the number of off-street parking and loading spaces provided for the~~  
18                   ~~entire use (pre-existing plus expansion) must equal 100 percent of the minimum ratio~~  
19                   ~~established in this section.~~

20           **3.       Regulation of Parking Space Use**

21                   The providers of required off-street parking spaces ~~and the municipality~~ may reasonably  
22                   control the users thereof by means that may include, but are not limited to, restricting all  
23                   parking to the users of the facility; parking lot attendants control gates; tow-away areas;  
24                   areas for exclusive use by employees, tenants or staff; areas restricted for use by  
25                   customers or visitors; and imposing reasonable time limitations on users ~~other than~~  
26                   ~~tenants, employees, or staff. Direct charges may be made to users who exceed~~  
27                   ~~maximum time limits. Prior to approval of the permit t~~The traffic engineer may review all  
28                   methods of control and may disapprove of any restriction that adversely affects the  
29                   purpose of this section. The municipality may enforce any approved parking plan or  
30                   restrictions through any of the code enforcement provisions set forth in chapter 21.13,  
31                   *Enforcement.*

32           **4.       Use of Required Parking Spaces**

33                   Required parking spaces shall be available for the use of residents, customers, visitors,  
34                   or employees of the use. Required parking spaces shall be available at no charge,  
35                   except that the traffic engineer may approve charges for use of required parking spaces if  
36                   in a municipally recognized parking district or in the AD, PLI, and PCD zoning districts.  
37                   Required parking spaces may not be assigned in any way to a use on another site,  
38                   except for shared parking situations. See subsection 21.07.090E.7. Also, required  
39                   parking spaces may not be used for the parking of equipment or fleet vehicles or for  
40                   storage of goods or inoperable vehicles.

41           **5.       Parking Nonconformities**

42                   When a site is out of compliance as to the number of required or allowed parking spaces,  
43                   section 21.12.060, *Characteristics of Use*, applies.

1 **C. Computation of Parking and Loading Requirements**

2 **1. Fractions**

3 For residential uses, when measurements of the number of required or allowed parking  
4 spaces on the site result in a fractional number after subtracting for parking reductions or  
5 alternatives, any fraction shall be rounded up to the next higher whole number. For all  
6 other uses, when measurements of the number of required spaces result in a fractional  
7 number, any fraction shall be rounded down to the next lower whole number.

8 **2. Multiple Uses**

9 The number of parking spaces is computed based on the uses on the site. When there  
10 are two or more uses on a site, the required or allowed parking for the site is the sum of  
11 the required or allowed parking for the individual uses. For shared parking, see  
12 subsection 21.07.090E.7. below. Developments containing more than one use shall  
13 provide parking and loading in an amount equal to the total of the requirements for all  
14 uses, except as allowed by this section. However, loading facilities may be shared  
15 between uses when approved by the traffic engineer.

16 **3. Area Measurements**

17 Unless otherwise specified, all square footage-based parking and loading standards shall  
18 be computed on the basis of gross floor area of the use in question. A parking structure  
19 within a building Floor area dedicated for parking spaces, driveways, drive aisles,  
20 loading, or and any enclosed rooftop mechanical equipment located above the general  
21 roof level shall not be counted in such measurement.

22 **4. Occupancy Load Factors**

23 Where parking requirements for assembly rooms or other uses are based on maximum  
24 capacity under provisions of AMC title 23, the occupancy load factors of AMC title 23  
25 shall not be adjusted.

26 **5. Additional Computation Standards of Off-Street Parking**

27 **a. Off-Street Loading Space**

28 Required off-street loading space shall not be included as off-street parking  
29 spaces in computation of required or allowed number of off-street parking  
30 spaces, unless approved by the traffic engineer pursuant to subsection F.5.  
31 below.

32 **b. Fleet Vehicle Parking**

33 For the purpose of calculating parking requirements, fleet vehicle parking shall  
34 not count against either the minimum or maximum requirements.

35 **c. Areas that Count Toward Minimum but not Maximum Parking**  
36 **Requirements**

37 For the purpose of calculating parking requirements, the following types of  
38 parking spaces shall not count against the maximum parking requirement, but  
39 shall count toward the minimum requirement:

40 i. Accessible parking;

41 ii. Passenger loading zones including taxi cab stands;

42 iii. Vanpool and carpool parking; and

- 1                   iv.     Parking structures, underground parking, and parking within, above, or  
2                   beneath the building(s) it serves.

3                   **6.     Parking for Unlisted Uses**

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

12                  **D.     Parking Lot Layout and Design Plan**

13                  **1.     Applicability**

14                  For all commercial, industrial, institutional, ~~and~~ multifamily ~~and townhouse~~ residential  
15                  developments<sup>4</sup>, the applicant shall submit a parking lot layout and design plan for review  
16                  and approval by the traffic engineer. The plan shall contain sufficient detail to enable the  
17                  traffic engineer ~~and the director~~ to verify compliance with this section 21.07.090. Subject  
18                  to approval of the traffic engineer, the parking layout and design plan may be combined  
19                  with other plans required under this title, such as the landscaping plan required in  
20                  21.07.080, *Landscaping, Screening, and Fences*.

21                  **2.     Minimum Plan Requirements**

- 22                  a.     The parking lot layout and design plan shall be prepared by a design professional  
23                  and stamped by a professional registered with the Alaska State Board of  
24                  Registration for Architects, Engineers, and Land Surveyors, ~~except that parking~~  
25                  ~~lots with fewer than 20 parking spaces shall be exempt.~~
- 26                  b.     The ~~director~~ ~~building official~~ and traffic engineer shall establish the minimum  
27                  submittal requirements for such plans that will enable staff to adequately review  
28                  and ensure compliance with the standards and requirements of this section  
29                  21.07.090. Such submittal requirements, to be included in the user's guide, shall  
30                  include but not be limited to elements such as placement and dimensions of  
31                  spaces, landscaping, pedestrian and vehicle circulation, snow storage, lighting,  
32                  loading and trash collection areas, and drainage.
- 33                  c.     The traffic engineer shall ensure that provisions have been made for minimum  
34                  interference with street traffic flow and safe interior vehicular and pedestrian  
35                  circulation, transit, and parking.

36                  **E.     Off-Street Parking Requirements**

37                  **1.     Minimum Number of Spaces Required ~~Schedule A~~**

38                  Unless otherwise expressly stated in this title, off-street parking spaces shall be provided  
39                  in accordance with table 21.07-5, *Off-Street Parking Spaces Required ~~Schedule A~~* and  
40                  subsection E.2. below. ~~Reductions, exemptions, and alternatives to the required~~  
41                  ~~minimum number of parking spaces are provided in subsection 21.07.090F. below.~~

42                  **2.     Minimum of Three Parking Spaces**

43                  Where a nonresidential use is required to provide off-street parking and the requirement  
44                  is fewer than three spaces, the use shall be required to provide at least three parking  
45                  spaces including one customer or visitor parking space, one employee parking space,

1  
2  
3  
4

and one accessible parking space. Fueling stations and food and beverage kiosks that are exclusively for drive-through customers are exempt from this requirement. Where there are multiple uses located on a site, the uses may share the accessible space.

TABLE 21.07-5: OFF-STREET PARKING SPACES REQUIRED SCHEDULE A ("du" = dwelling unit; "sf" = square feet; "gfa" = gross floor area)				
Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
<b>RESIDENTIAL USES (* Ratios for residential uses are still being discussed)</b>				
Household Living	Dwelling, mixed use	See Schedule B. 1 per studio or efficiency du		
	Dwelling, multiple-family and mixed-use	1.2 per one bedroom du 1.6 per two bedroom du Add 0.5 spaces for each bedroom over 2. Add 0.25 spaces for each du with single-family style or two-family style construction. Add 0.25 guest parking spaces for each du with single-family, two-family, or townhouse style construction, and located on a private street or on a public street with no on-street curb parking available. • 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. Also see Schedule B.	X	
	Dwelling, single-family, and two-family detached	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		
	Accessory dwelling unit (ADU)	See subsection 21.05.070D.		
	All other household living uses	2 per du		
Group Living	Assisted living facility (9+ client capacity)	1 per 4 beds plus 1 per 350 sf of office area plus requirement for dwelling, if located in a dwelling	X	

TABLE 21.07-5: OFF-STREET PARKING SPACES REQUIRED SCHEDULE A				
("du" = dwelling unit; "sf" = square feet; "gfa" = gross floor area)				
Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Correctional community residential center	1 per 2,000 sf gfa	X	
	Dormitory	1 per 1,000 sf gfa	X	
	Habilitative care facility	1 per 400 sf gfa, and 1 passenger loading additional space, reserved for pickup and delivery of adults, per 800 sf gfa plus requirement for principal use	X	
	Residential care (7+ client capacity)	1 per 4 beds plus 1 per 350 sf of office area plus requirement for dwelling, if located in a dwelling	X	
	Roominghouse	1.5 per 2 guestrooms		
	Transitional living facility All other group living uses	1 per 2 beds plus 1 per 4 persons in principal assembly area based on maximum occupancy provisions of AMC title 23 400 sf of assembly area		
<b>PUBLIC/INSTITUTIONAL USES</b>				
Adult Care	Adult care facility, 3-8 persons 1-6 adults	1 per 400 sf gfa, and 1 passenger loading 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 facility, 9 7+ persons adults	1 per 400 sf gfa, and 1 passenger loading additional space, reserved for pickup and delivery of adults, per 800 sf gfa	X	
Child Care	Child care home, 1-6 children	No additional requirements beyond those required for the dwelling unit If the establishment is for fewer than 9 children and is not located in a dwelling, then the requirement is as provided in subsection 21.07.090E.2. 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 center, 9-15 7+ children	1 space in addition to what is required for the dwelling 1 per 400 sf gfa, and 1 additional space, reserved for pickup and delivery of children, per 800 sf gfa	X	

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

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Child care center, more than 15 children	1 per 400 sf gfa, and 1 passenger loading additional space, reserved for pickup and delivery of children, per 800 sf gfa		
Community Service	Community center or religious assembly	1 per 4 persons in 80 sf of principal assembly area based on maximum occupancy provisions of AMC title 23 plus 1 per 350 sf of office area	X	
	Cemetery or mausoleum	See subsection 21.07.090D.3. 1 per 250 sf gfa	X	
	Community center			
	Crematorium	1 per 4 persons in the main chapel based on maximum occupancy provisions of AMC title 23		
	Family self-sufficiency service	1 per 300 sf gfa		
	Government administration and civic buildings	1 per 300 sf gfa	X	
	Homeless and transient shelter	1 per 300 sf gfa		
	Neighborhood recreation center	1 per 300 sf gfa		
Cultural Facility	Aquarium	1 per 500 sf gfa	X	
	Botanical gardens	.75 per acre of site area, plus 1 per 1000 sf gfa	X	
	Library	1 per 400 sf gfa	X	
	Museum or cultural center	1 per 400 sf gfa	X	
	Zoo	1 per 5,000 sf of site area 2,000 sf gross land area	X	
	All other uses	1 per 400 sf gfa or 1 per 10,000 sf of site area for outdoor uses	X	
Educational Facility	Boarding school	See subsection 21.07.090D.3. Schedule C.		
	College and university	1 per 600 sf gfa exclusive of dormitories, plus 1 per 4 dorm rooms 300 sf of enclosed floor space	X	
	Computer-aided learning center	1 per 300 sf of enclosed floor space	X	
	Elementary school and middle school	1 per 5 seats in each classroom or teaching station 50 sf of floor area in the multipurpose room	X	

TABLE 21.07-5: OFF-STREET PARKING SPACES REQUIRED SCHEDULE A (“du” = dwelling unit; “sf” = square feet; “gfa” = gross floor area)				
Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Middle school	1 per six seats in the main auditorium or assembly room, based on maximum capacity	X	
	High school	1 per 4 seats in each classroom or teaching station employee plus 1 per four students		
	Instructional services All other Educational Facility uses without auditoriums or assembly rooms	1 per 4 seats in each classroom or teaching station based on maximum occupancy provisions of AMC title 23, plus 1 per 300 square feet of dance or other training area 1 per 300 sf of enclosed floor space	X	
	Vocational or trade school	1 per 2 seats in each classroom or teaching station based on maximum occupancy provisions of AMC title 23		
Government Facility	Correctional institution	See Schedule C.		
	Governmental office	1 per 300 sf gfa	X	
	Fire station	See Schedule C.		
Health Care Facility	Health care facility or nursing home, all uses other than hospitals	1 per 4 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 services establishment, including outpatient medical and dental offices	1 per 250 sf gfa	X	
	Hospital/ health care facility	1 per 2 beds, based on maximum capacity, plus 1 per 350 sf of office and administrative area, plus required parking for supplemental uses	X	



TABLE 21.07-5: OFF-STREET PARKING SPACES REQUIRED SCHEDULE A (“du” = dwelling unit; “sf” = square feet; “gfa” = gross floor area)				
Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Nursing facility	1 per 4 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	
Park and Open Area	Cemetery	See Schedule C.		
	Community garden	1 per 5,000 sf of lot area		
	Nursery, public	See Schedule C.		
	Park and open space, public or private	See subsection 21.07.090D.3. Schedule C. Playfields (soccer, baseball, etc.) shall have minimum of 30 29 spaces per field.		
Public Safety Facility	All uses	See subsection 21.07.090D.3.		
Transportation Facility	Airport	See subsection 21.07.090D.3. Schedule C.		
	Airstrip, private	See subsection 21.07.090D.3. Schedule C.		
	Bus + Transit center	See subsection 21.07.090D.3. Schedule C.		
	Heliport	2 per each helicopter based at the facility (2 spaces minimum) plus 1 per 100 sf waiting area	X	
	Railroad freight terminal	See subsection 21.07.090D.3. Schedule C.		
	Railroad passenger terminal	See subsection 21.07.090D.3. Schedule C.		
	Taxicab dispatching office	See Schedule C.		
Utility Facility	All uses	1 per 1,000 sf gfa		
Communication Structures	All uses	None		
<b>COMMERCIAL USES</b>				
Agricultural Uses	Farming, animal husbandry	See Schedule C.		

TABLE 21.07-5: OFF-STREET PARKING SPACES REQUIRED SCHEDULE A ("du" = dwelling unit; "sf" = square feet; "gfa" = gross floor area)				
Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Farming, Commercial horticulture	See subsection 21.07.090D.3. Schedule C.		
Animal Sales, Service & Care	Animal control shelter	1 per 400 sf gfa		
	Kennel, commercial	1 per 800 sf gfa		
	Large domestic animal facility, principal use Paddock or stable	1 per 4 seats or 1 per stall, whichever is greater 1 per 5 stalls		
	Retail and pet services	1 per 300 sf gfa		
	Veterinary clinic	1 per 600 sf gfa		
Assembly	Civic/convention center	1 per 4 seats persons in assembly areas. If no fixed seating, then based on maximum occupancy capacity under provisions of AMC title 23 International Building Code.	X	
	Club/lodge/meeting hall	1 per 4 persons in assembly areas based on maximum occupancy provisions of AMC title 23. 300 sf gfa	X	
	Entertainment event, major	See Schedule C.		
Entertainment and Recreation, Indoor	Amusement establishment	Indoor entertainment facility: 1 per 300 sf gfa		
	Bowling Alley	4 per bowling lane		
	Entertainment facility, major	See subsection 21.07.090D.3.		
	Fitness and recreational sports center	1 per 225 sf gfa or 1 per 8 persons based on the maximum allowable occupancy provisions of AMC title 23, whichever is greater For athletic court areas: 1 per 275 sf		
	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 30 20 spaces per field	X	
	Golf course	4 per green		
	Golf driving range	1 per tee		

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

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	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	
	Movie theater	1 per <b>4 persons</b> <del>four seats. If no fixed seating, then</del> based on maximum <b>occupancy</b> capacity under provisions of <b>AMC title 23</b> International Building Code.		
	Nightclub, licensed or unlicensed	1 per <b>3 persons</b> <del>three seats. If no fixed seating, then</del> based on maximum capacity under provisions of <b>AMC title 23</b> International Building Code.	X	
	Shooting range, outdoor	<del>1</del> <b>2</b> per target area, or 1 per 5 seats, whichever is greater		
<del>Entertainment/ Recreation, Outdoor</del>	Skiing facility, <b>alpine</b>	See <b>subsection 21.07.090D.3, Schedule C</b> .		
	Theater company or dinner theater	1 per <b>4 persons</b> <del>four seats. If no fixed seating, then</del> based on maximum capacity under provisions of <b>AMC title 23</b> International Building Code.		
<del>Financial Institutions</del>				
Food and Beverage Service	Bar	1 per 100 sf gfa	X	
	Food and beverage kiosk	1 per establishment, plus vehicle <b>queuing</b> <del>stacking</del> spaces		X
	Restaurant	1 per 100 sf gfa (plus vehicle <b>queuing</b> <del>stacking</del> spaces if drive-through is provided)	X	X
Office	Financial institution	1 per 350 sf gfa, <del>except 1 per 300 sf gfa of areas associated with teller services</del> (plus vehicle <b>queuing</b> <del>stacking</del> spaces if drive-through is provided)		X
	Office, business or professional	1 per 350 sf gfa	X	
	Broadcasting facility	1 per <del>350</del> <b>300</b> sf gfa		
<del>Retail (Personal Service, Repair, and Rental)</del>	Business service establishment	1 per <del>500</del> <b>300</b> sf gfa	X	
	Pharmacy/Drugstore and Video Rental Store	1 per 400 sf gfa (plus vehicle <b>queuing</b> <del>stacking</del> spaces if drive-through is provided)		X
	Dry-cleaning, drop-off site/Mail Package Service/Locksmith Shop	1 per 600 sf gfa, (plus vehicle <b>queuing</b> <del>stacking</del> spaces if drive-through is provided)		X

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

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Funeral services	1 per 4 persons in main assembly areas based on maximum occupancy provisions of AMC title 23 150 sf gfa in main assembly areas	X	
	Small equipment rental	1 per 400 sf gfa		
	All other uses	1 per 300 sf gfa	X	
Retail (Sales)	Auction house	1 per 300 sf gfa	X	
	Carpet Store	1 per 500 sf gfa		
	Convenience store	1 per 300 sf gfa	X	
	Farmers market	1 per 250 sf, with a minimum of 6		
	Fueling station	1 per attendant for stand-alone fueling stations; also refer to subsection 21.07.090H. for queuing requirement 1 per fueling pump		X
	Furniture, Home Appliance, or Flooring Store	1 per 800 sf gfa	X	
	Meat and seafood processing, storage, and sales	1 per 400 sf gfa	X	
	General retail	1 per 300 sf gfa	X	
	Grocery or food store	1 per 250 sf gfa	X	
	Liquor store	1 per 400 300 sf gfa	X	
	Building materials store	1 per 300 sf gfa	X	
	Nursery, commercial	1 per 250 sf retail sales area; 1 per 500 sf greenhouse sales area; 1 per 1,000 sf outdoor display area	X	
	Pawnshop	1 per 300 sf gfa	X	
Vehicles and Equipment	Aircraft and marine vessel sales	1 per 7,000 sf outdoor display/sales area; 1 per 400 sf indoor floor area	X	
	Vehicle parts and supplies	1 per 400 sf gfa; 1 per 7,000 sf outdoor display/sales area	X	
	Vehicle – large and small, sales and rental	1 per 7,000 sf outdoor display/sales area; 1 per 400 sf indoor floor area	X	

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

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
	Vehicle service and repair, major and minor	0.5 <del>2</del> 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)		
Visitor Accommodations	Camper park	1.1 spaces for each recreational vehicle space		
	Extended-stay lodgings	1 per guestroom or one bedroom unit; 1.25 per two bedroom unit; 1.5 per three bedroom or more unit, plus 1 per 4 persons in meeting rooms based on maximum occupancy provisions of AMC title 23.	X	
	Hostel	1 per 600 sf gfa		
	Hotel, motel and inn	0.9 per guestroom, plus 1 per 4 persons in meeting rooms based on maximum occupancy provisions of AMC title 23. .3 per each 5 occupants of meeting area, plus any supplemental uses	X	
	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	X	
	Recreational and vacation camp	1 per 4 beds, or 1 per cabin, or sleeping unit, or tent site, whichever is greater, plus 1 per tent site		
<b>INDUSTRIAL USES [1]</b>				
Industrial Service [1]	Data processing facility	1 per 1,000 sf gfa	X	
	Dry cleaning establishment	1 per 750 sf dry cleaning plant area plus 1 per 600 sf of customer service area		
	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)		
	Governmental service	1 per 600 sf gfa	X	
	Heavy equipment, sales and rental	1 per 7,000 sf outdoor display/sales area; 1 per 400 sf indoor floor area	X	
	Research laboratory	1 per 300 sf gfa		
Manufacturing	Cottage Crafts	1 per 600 <del>300</del> sf gfa	X	

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

Use Category	Use Type	Minimum Spaces Required	See Loading Subsection 21.07.090F	See Stacking Subsection 21.07.090I
and Production [1]	Commercial food production	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 subsection 21.07.090D.3, Schedule C.		
Marine Facility [1]	Aquaculture	See subsection 21.07.090D.3, Schedule C.		
	Facility for combined marine and general construction	See subsection 21.07.090D.3, Schedule C.		
	Marine operations	See subsection 21.07.090D.3, Schedule C.		
	Marine wholesaling	1 per 400 sf gfa		
Warehouse and Freight Movement [1]	Bulk storage of hazardous materials	See subsection 21.07.090D.3, Schedule C.		
	Impound yard	1 per 500 sf gfa, plus 1 per 5,000 sf of outdoor storage area		
	Motor freight terminal	see Warehouse		
	Self-storage facility	1 per 75 units, plus 1 per 300 sf of office area, plus vehicle queuing stacking spaces for security gate. Aisles suitable for temporary loading and unloading may be counted as required parking stalls in accordance with table 21.07-5 as determined by the traffic engineer.	X	X
	Storage yard	1 per 2,000 sf of outdoor storage area		
	Warehouse	1 per 1,000 sf gfa (1-10,000 sf); 1 per 1,250 sf gfa (10,001-50,000 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 subsection 21.07.090D.3, Schedule C.		

Notes:

[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 [this table schedule A](#).

1  
2

**Schedule B**

TABLE 21.07-5: OFF-STREET PARKING SCHEDULE B – MIXED-USE DISTRICTS	
Use Type	Minimum Spaces Required
Residential	<p>Multifamily and mixed-use residential uses within 1320 feet of a transit stop on a transit route 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:</p> <ul style="list-style-type: none"> <li>• Minimum of 1 space per 1-bedroom unit</li> <li>• Minimum of 1.33 spaces per 2-bedroom unit</li> <li>• Minimum of 1.5 spaces per 3-bedroom unit</li> </ul>
Nonresidential	<p>Nonresidential uses shall be eligible for a five percent (5%) reduction from the minimum number of required spaces in schedule A; or</p> <p>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's <i>Transit Design Guidelines</i>.</p>
<p>The total number of parking spaces required 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.</p>	

3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23

3. **Uses Not Listed or that Have No Specific Requirement Schedule C**  
 In the case of a use or category of uses not listed in table 21.07-5, or that is listed without a specific requirement, the requirements for off-street parking facilities shall be determined by the director and the traffic engineer. Such determination shall be based upon the requirements for the use specified in table 21.07-5 that is most nearly comparable to the unspecified use, traffic engineering principles, and/or parking studies. 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 **Any parking study prepared by the applicant** shall include estimates of parking demand based on recommendations of the Institute of Transportation Engineers (ITE), or other acceptable estimates as approved by 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.

24  
25  
26  
27  
28  
29  
30

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, enhanced urban design form, a safe and walkable pedestrian environment, 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 21.07-6 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 Spaces Required Schedule A*. **Temporary parking, commercial parking lots, and Uses** in the Parks and Open Areas, Transportation Facility, and Utility Facility use categories are exempt.

TABLE 21.07-6 MAXIMUM NUMBER OF ALLOWED PARKING SPACES	
Number of Off-Street Parking Spaces Required	Maximum Allowed (% of minimum required in Table 21.07-4, <i>Off-Street Parking Schedule A</i> )
< 40 spaces	150% [1] [2]
40 – 160 spaces	125% [1]
> 160 spaces	110% [1] [2] [3]
<b>Notes:</b>	
[1] Restaurant Uses: <del>In spite of Note [2] below,</del> restaurant and bar establishments that do not include customer drive-throughs may, in any use district, have up to 200% of the minimum parking required in Table 21.07-4, <i>Off-Street Parking Spaces Required Schedule A</i> .	
[2] <del>CBD and Mixed Use Districts: In districts intended for more intense, pedestrian friendly, and mixed use development, namely the CBD, MMU, CMU, and RM-4 districts, the maximum number of spaces allowed shall be 125% of the minimum parking required in Table 21.07-4, <i>Off-Street Parking Schedule A</i>.</del>	
[2] [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 <del>provide a 1% increase</del> <b>the parking lot in interior landscaping by one percent as a percentage of parking lot surface area</b> for every one percent increase in parking over 110%, up to a maximum of <del>125</del> <b>135%</b> . <del>(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.)</del>	

**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.

~~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; and~~



1 ~~(C) Parking structures, underground parking, and parking within,~~  
2 ~~above, or beneath the building(s) it serves.~~

3 ~~For the purpose of calculating parking requirements, fleet vehicle parking shall~~  
4 ~~not count against either the minimum or maximum requirements.~~

5 ii. Spaces provided as the required parking for a use on another parcel  
6 through a municipally approved shared parking or off-site parking  
7 agreement do not count toward the maximum number of spaces  
8 permitted.

9 iii. Exceptions to the maximum parking requirement may be allowed by the  
10 traffic engineer and the ~~director building official~~ in situations that meet all  
11 of the following criteria:

12 (A) The proposed development has unique or unusual  
13 characteristics ~~such as high sales volume per floor area or low~~  
14 ~~parking turnover,~~ which create a parking demand that exceeds  
15 the maximum ratio and which typically does not apply to  
16 comparable uses; and,

17 (B) The parking demand cannot be accommodated by on-street  
18 parking or shared parking with nearby uses; and,

19 (C) The request is the minimum necessary variation from the  
20 standards; and,

21 (D) If located in a mixed-use district, the uses in the proposed  
22 development and the site design are, in the judgment of the  
23 director, highly supportive of the mixed-use concept and support  
24 high levels of existing or planned transit and pedestrian activity.

25 **5. Proximity of Parking to Use**

26 Except as provided in subsection 21.07.090F., all required parking shall be on the same  
27 site as the use served. However, required parking may be on an abutting or adjacent lot  
28 provided the zoning district in which the lot is located allows for off-street parking as a  
29 permitted principal use, site plan review use, or conditional use. There shall be a parking  
30 agreement which meets the requirements of subsection F.1. below.

31 **F. Parking Reductions and Alternatives**

32 The traffic engineer and director may approve reductions and alternatives to providing the  
33 number of off-street parking spaces required by table 21.07-5 ~~subsection 21.07.090D,~~ in  
34 accordance with the following standards.

35 **1. Parking Agreement**

36 A parking reduction or alternative shall require a written parking agreement between the  
37 property owner(s) and the municipality, except where expressly stated otherwise.

38 **a. Recordation**

39 The applicant shall record the parking agreement at the district recorder's office  
40 as a covenant that runs with the land and is binding on the owner and all  
41 successors and assigns for as long as the required number of off-street parking  
42 spaces is not provided as a result of the parking reduction or alternative. All

1 parties involved in the parking reduction or alternative shall participate in the  
2 parking agreement. Recordation of the agreement shall take place and an  
3 attested copy submitted to the department before issuance of a land use permit  
4 or building permit requiring a parking reduction or alternative.

5 **b. Content**

6 The form and content of the parking agreement shall be approved by the director.  
7 It shall guarantee installation and maintenance of any required improvements by  
8 the owner, and/or the owner's continued participation in any parking  
9 management strategy required for a parking reduction. The parking agreement  
10 shall assure future implementation of a contingency plan by the owner if so  
11 ordered by the director. The contingency plan may include strategies such as  
12 installation of parking, payment to the municipality for the full cost of providing the  
13 required parking, transportation demand management programs, or other parking  
14 management strategies identified in the parking reductions or alternatives of this  
15 section.

16 **c. Termination**

17 If for any reason the parking agreement terminates, owners who were parties to  
18 the parking agreement shall comply with all provisions of this title governing the  
19 required number of off-street parking spaces.

20 **2. Calculation of Parking Reductions**

21 **a. Multiple Reductions**

22 A development may be eligible for multiple reductions from the required number  
23 of parking spaces. The total impact of parking reductions shall be calculated as  
24 being multiplicative and not additive where a development is eligible for more  
25 than one. For example, if one reduction is 20%, and a second reduction is an  
26 additional 15%, their combined reduction shall be calculated as  $80\% \times 85\% =$   
27 68%, or a 32 percentage point total reduction, rather than adding  $20\% + 15\% =$   
28 35%. This is because the 15% reduction applies to a base that is already  
29 reduced 20%.

30 **b. Minimum Reduction Credit of One Space**

31 If the total approved reduction from the required number of parking spaces for a  
32 development is calculated to be a reduction of less than one parking space, it  
33 shall be credited as a reduction of one parking space.

34 **3. Qualifying Site Development**

35 Uses shall provide the following enhancements to be eligible for any reduction in the  
36 number of required parking spaces, except where stated otherwise.

37 **a. Street Oriented Building**

38 Primary entrances and/or windows providing visual access shall comprise at  
39 least 15% of the area of any street facing building elevation. For nonresidential  
40 uses, windows providing visual access and/or primary entrances shall comprise  
41 at least 50% of the length and 25% of the area of the ground-level wall of any  
42 street facing building elevation.

43 **b. Separated Walkway to the Street**

44 A walkway not routed through a parking facility or crossed by a driveway shall  
45 connect at least one primary entrance to a street.

46 **c. Parking Facility Location**

1 Parking facilities including driveways shall comprise no more than one-third of  
2 the area between the street property line and the street facing building elevation,  
3 and garage doors shall comprise no more than one-third of the length of the  
4 street facing building elevation. These requirements apply to no more than two  
5 street frontages.

6 **d. Private Open Space**

7 An additional 40 square feet of private open space that meets the requirements  
8 of subsection 21.07.030 shall be provided for each reduction of one parking  
9 space. This shall be common private open space in multifamily uses.

10 **e. Cross Access to Adjacent Properties**

11 The director and the traffic engineer may determine there is potential for  
12 driveway or walkway cross-access to abutting properties and may require a  
13 cross-access facility and/or easement within the subject property to the site  
14 boundary.

15 **4. Downtown**

16 Uses located in DT-1, DT-2, and DT-3 districts are exempt from providing off-street  
17 parking spaces. However, if parking is provided, all other standards of this section  
18 apply in the DT districts. Notwithstanding the provisions of F.1. and F.2. above, parking  
19 agreements and qualifying site criteria shall not be required for this exemption.

20 **5. Residences in Walking Distance to Downtown**

21 Residential uses located near the DT districts, and specifically north of 15<sup>th</sup> Avenue, west  
22 of Gambell Street, east of L Street, and south of Ship Creek are eligible for a reduction of  
23 up to 40% of the minimum number of required parking spaces.

24 **6. Mixed-Use Districts**

25 Uses located in the NMU, CMU, RMU, MT-1, MT-2, and R-4A districts are eligible for a  
26 reduction of up to 10% of the minimum number of required parking spaces.

27 **7. Residences in Center City Neighborhoods**

28 **a.** Residential uses located in center city neighborhoods are eligible for a reduction  
29 of up to 10% of the minimum number of required parking spaces.

30 **b.** For the purposes of this provision, the center city area is bounded to the north by  
31 Elmendorf Air Force Base, to the south by Tudor Road, to the east by Ingra  
32 Street and the Seward Highway, and to the west by Minnesota Drive. Any part of  
33 Fairview, South Addition, Government Hill, or Mountain View community council  
34 is also in the eligible area.

35 **c.** This reduction recognizes proximity to employment centers, characteristics such  
36 as traditional street grids and development patterns, demographic  
37 characteristics, emphasis on walkable northern city environments, and lower  
38 parking demand in these areas.

39 **8. Uses Adjacent to Transit Service**

40 A use is eligible for a reduction of up to five percent of the minimum number of required  
41 parking spaces if it is located within 800 feet of the street right-of-way centerline of any  
42 one of municipal transit routes 1 through 75, subject to approval by the traffic engineer,  
43 the director, and the public transportation department. The public transportation  
44 department may required a public use easement or transit stop and/or transit shelter  
45 improvements if the subject property abuts an existing or planned transit stop.

1 **9. Rideshare Programs**

2 A nonresidential use is eligible for a substitution of participation in municipal rideshare  
3 programs for up to a maximum of five percent of the minimum number of required parking  
4 spaces. The land area that would otherwise be needed in order to provide the required  
5 number of parking spaces shall be set aside on the site to provide for the future  
6 construction of a parking area in conformance with subsection 21.07.090F.13., *Land*  
7 *Banked Parking.*

8 **a. Carpool**

9 Every certified carpool space may count as 1.8 spaces toward meeting the  
10 minimum number of required spaces. The carpool spaces shall be those closest  
11 to the primary entrance or elevator, but not closer than accessible spaces or  
12 those signed for exclusive customer/visitor use. Signs shall be posted indicating  
13 these spaces are reserved for carpool use. The traffic engineer shall consult with  
14 the public transportation department in certifying carpool spaces and the location  
15 of carpool parking.

16 **b. Vanpool**

17 For every certified vanpool purchased or leased by the applicant for employee  
18 use operated through the municipal rideshare program, the number of required  
19 parking spaces shall be reduced by up to six spaces.

20 **10. Transit Pass Benefits**

21 A use in which the owner or employer offers transit passes cost-free to all employees or  
22 residents is eligible for a parking reduction of up to 10% of the minimum number of  
23 required parking spaces. The use shall be located within 800 feet of the street right-of-  
24 way centerline of any one of municipal transit routes 1 through 75. The public  
25 transportation department may require a public use easement or transit stop and/or  
26 transit shelter improvements if the subject property abuts an existing or planned transit  
27 stop.

28 **11. Parking Cash-outs**

29 A use is eligible for a reduction of up to 10% of the minimum number of required parking  
30 spaces if it implements a parking cash-out program by which commuters are provided the  
31 option to choose between free parking and its equivalent cash value for using an  
32 alternative mode of travel.

33 **12. Land Banking**

34 Subject to approval by the traffic engineer and the director, the land area that would  
35 otherwise be needed in order to provide up to 25% of the minimum number of required  
36 parking spaces may be set aside on the site to provide for the future construction of a  
37 parking area. The applicant shall submit an alternate site plan that accommodates the  
38 parking that would be required without the land banked parking reduction. The area set  
39 aside shall be landscaped with site enhancement landscaping and/or pedestrian  
40 amenities approved by the director. The parking agreement shall guarantee that, if the  
41 director and the traffic engineer determine at some point in the future that additional  
42 parking spaces are needed, the owner shall construct parking on the land banked area in  
43 conformance with the alternate site plan.

44 **13. Affordable Housing**

45 Affordable housing units that are deed-restricted for extremely low income households  
46 having an income at the time of initial occupancy of 30% or less of median family income  
47 are eligible for a reduction of up to 40% of the minimum number of required parking  
48 spaces. Affordable housing units for low income households having an income at the

1 time of initial occupancy of 60% or less of median family income are eligible for a  
2 reduction of up to 20% of the minimum number of required parking spaces. The  
3 affordable housing units shall be consistent with the following standards:

4 **a.** The affordable housing units shall be intermingled with all other dwelling units in  
5 the development;

6 **b.** The type of tenure and ownership of the affordable housing units shall be the  
7 same as that of the rest of the housing units in the development; and

8 **c.** The exterior appearance of the affordable housing units shall be indistinguishable  
9 from the other units in the development.

10 **14. Senior Housing and/or Supportive Housing**

11 Senior housing units or supportive housing units are eligible for a reduction of up to 40%  
12 of the minimum number of required parking spaces. The agreement to provide a dwelling  
13 as a senior and/or supportive housing unit is an obligation that runs with the land and is  
14 binding on subsequent property owners for as long as the required parking is not  
15 provided.

16 **15. Housing Density**

17 Residential uses are eligible for a reduction of one percent of the minimum number of  
18 required parking spaces for every two dwellings per acre above a net density of 40  
19 dwellings per acre on the site, up to a maximum reduction of 20% of the minimum  
20 number of required parking spaces.

21 **16. Shared Parking**

22 Shared use of required parking spaces may occur where two or more uses on the same  
23 or separate sites are able to share the same parking spaces because their peak parking  
24 demands occur at different times. The traffic engineer and director may approve shared  
25 parking facilities for ~~developments or uses with different operating hours or different~~ peak  
26 business periods if the shared parking complies with all of the following standards:

27 **Location**

28 Shared parking spaces shall be located within 1320 feet of an entrance, unless  
29 approved by the traffic engineer.

30 **Zoning Classification**

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

33 **a. Shared Parking Study**

34 The applicant shall submit a shared parking analysis to the director that  
35 demonstrates the feasibility of shared parking. Those proposing to use shared  
36 parking as a means of satisfying off-street parking requirements shall submit a  
37 shared parking analysis to staff that demonstrates the feasibility of shared  
38 parking. The study shall be provided in a form established by the traffic engineer  
39 and shall be made available to the public. It shall address, at a minimum, the  
40 size and type of the proposed development, location of required parking, the  
41 composition of tenants, the anticipated rate of parking turnover, and the  
42 anticipated peak parking and traffic loads for all uses that will be sharing off-  
43 street parking spaces. The applicant shall also demonstrate that any parking  
44 reduction requested as part of the shared parking study will not result in the  
45 spillover of parking onto other properties or public streets.

**b. Calculation of Parking Spaces Required**

The shared parking study shall follow the most current published procedures of the Urban Land Institute, or the Institute of Transportation Engineers, or other procedures as specifically approved by the traffic engineer, or, the method under subsection 16.c. below may be used to calculate the number of shared parking spaces required for two or more land uses.

**c. Alternative Calculation Method**

Multiply the number of off-street parking spaces required for each individual use by table 21.07-5 by the appropriate percentage indicated in table 21.07-7, *Shared Parking Credit*, for each of the eight designated time periods. Add the resulting sums for each of the designated time period columns. The minimum number of required shared parking spaces shall be determined by totaling the resulting numbers in each time period column. The column total that generates the highest number of parking spaces then becomes the shared parking requirement. This represents the time period with the highest total parking demand.

**TABLE 21.07-7: SHARED PARKING CREDIT**

Land Uses [1]	Weekday Time Periods				Weekend Time Periods			
	7 am to 6 pm	6 pm to 1 am	1 am to 3 am	3 am to 7 am	7 am to 6 pm	6 pm to 1 am	1 am to 3 am	3 am to 7 am
Residential	65%	100%	100%	100%	75%	90%	10%	100%
Religious Assembly	25%	50%	0%	0%	100%	50%	0%	0%
Health Services	100%	30%	5%	5%	100%	0%	0%	0%
Assembly	100%	50%	5%	5%	100%	50%	5%	5%
Fitness Center	90%	100%	60%	60%	100%	100	80%	80%
Movie Theater	60%	100%	0%	0%	80%	100%	0%	0%
Bar or Nightclub	40%	100%	90%	0%	50%	100%	90%	0%
Restaurant	80%	100%	50%	50%	85%	100%	25%	25%
Restaurant - Fast Food	100%	90%	15%	15%	100%	80%	15%	15%
Office or Financial	100%	10%	0%	5%	15%	0%	0%	0%
Retail Sales / Services	100%	80%	0%	0%	100%	60%	0%	0%
Visitor Accommodations	75%	100%	100%	100%	75%	100%	100%	100%

**NOTES:** [1] If one or more of the land uses proposed to make use of shared parking facilities do not conform to the land use classifications in this table, as determined by the director, then the applicant shall submit sufficient data to indicate the periods of peak parking demand for the uses. Based on this information, the traffic engineer shall determine the appropriate shared parking requirement.

**d. Distance to Parking Spaces**

Shared parking spaces for residential units shall be located within 500 feet of the dwelling unit entrance they serve. Shared spaces for other uses shall be within 800 feet of a primary entrance of the uses served. The traffic engineer and the director may approve a portion of shared parking spaces at a greater distance based on factors such as the pedestrian environment, availability of attendant parking, weather protection, and the type of use served.

**e. Pedestrian Connection**

1 Clear and safe pedestrian walkways shall connect the shared parking facility and  
2 the primary entrances of the uses it serves.

3 **f. Separation by Streets**

4 Separation of a use and its shared parking facility by a local street is allowed.  
5 Separation by a collector street shall be subject to approval by the traffic  
6 engineer. Separation by a street designated in the *Official Streets and Highways*  
7 *Plan* as a higher classification street than a collector is prohibited.

8 **g. Residential Neighborhoods**

9 A nonresidential use shall not participate in a shared parking facility that is  
10 located in a residential district, if the use itself is not permitted in the residential  
11 district. A shared parking facility located within or adjacent to a residential district  
12 and serving nonresidential uses shall be limited to hours of operation from 8:00  
13 a.m. to 10:00 p.m.

14 **h. Instructional Signs**

15 The shared parking facility shall provide instructional signs on the premises  
16 indicating the availability of the facility for patrons of the uses it serves.

17 **i. Shared Parking Plan**

18 A shared parking plan shall be submitted for review and approval by the traffic  
19 engineer and the director. The shared parking plan may be combined with other  
20 parking plans required by this title.

21 **j. Changes in Use or Shared Parking Facility Agreement for Shared Parking**

22 Any subsequent change to the shared parking facility or in use type shall require  
23 a review by the department and the traffic engineer for compliance with this  
24 section, including proof that sufficient parking will be available. Any change shall  
25 be approved prior to being implemented. ~~The parties involved in the joint use of~~  
26 ~~off-street parking facilities shall submit a written agreement in a form to be~~  
27 ~~recorded for such joint use, approved by the traffic engineer and the director as~~  
28 ~~to form and content. The agreement shall guarantee the use of the shared~~  
29 ~~parking facilities for the life of the uses, and shall provide for the maintenance of~~  
30 ~~jointly used parking facilities. The traffic engineer and director may impose such~~  
31 ~~conditions of approval as may be necessary to ensure the adequacy of parking in~~  
32 ~~areas affected by such an agreement. Recordation of the agreement shall take~~  
33 ~~place before issuance of a land use or building permit for any use to be served~~  
34 ~~by the shared parking area. A shared parking agreement may be revoked only if~~  
35 ~~all required off-street parking spaces will be provided in accordance with the~~  
36 ~~requirements of subsection 21.07.090D.~~

37 **17. Off-Site Parking**

38 The traffic engineer and the director may approve the location of required ~~off-site~~ parking  
39 spaces on a separate lot ~~that is not adjacent to~~ ~~from~~ the lot on which the principal use is  
40 located if the off-site parking complies with all of the following standards:

41 **a. Accessible Parking Spaces ~~Ineligible Activities~~**

42 Required parking spaces for residential uses must be located on the site of the  
43 use or within a tract owned in common by all the owners of the properties that will  
44 use the tract. Required accessible parking spaces for persons with disabilities  
45 ~~shall~~ may not be located off-site.

46 **b. Location**

1 No off-site parking space may be located more than 600 feet from an **primary**  
2 entrance (measured along the shortest legal pedestrian route) ~~unless approved~~  
3 ~~by the traffic engineer. Off-site parking spaces shall be connected to the use by~~  
4 ~~acceptable pedestrian facilities. Off-site parking spaces shall may not be~~  
5 separated from the use served by a **collector or greater class street** right-of-way  
6 with a width of more than 80 feet, unless **approved by the traffic engineer.** a  
7 grade separated pedestrian walkway, a traffic signal, a shuttle bus, or other  
8 traffic control is provided or other traffic control or remote parking shuttle bus  
9 service is provided.

10 **c. Pedestrian Connection**

11 Clear and safe pedestrian walkways shall connect the off-site parking facility and  
12 the primary entrance(s) of the uses served. The traffic engineer may require  
13 sidewalk or pedestrian crossing improvements to enhance pedestrian safety or  
14 mobility to and from the off-site parking.

15 **d. Instructional Signs**

16 Instructional signs shall be posted on the principal site providing notice of the  
17 availability and location of additional parking. The off-site parking facility shall  
18 provide instructional signs indicating the availability of the facility for patrons of  
19 the uses it serves.

20 **e. Residential Neighborhoods Zoning Classification**

21 A nonresidential use shall not participate in an off-site parking facility that is  
22 located in a residential district, if the use itself is not permitted in the residential  
23 district. An off-site parking facility located within or adjacent to a residential  
24 district and serving nonresidential uses shall be limited to hours of operation from  
25 8:00 a.m. to 10:00 p.m. ~~Off-site parking areas shall have the same or a more~~  
26 ~~intensive zoning classification applicable to the primary use served.~~

27 **f. Agreement for Off-Site Parking**

28 In the event that an off-site parking area is not under the same ownership as the  
29 principal use served, a written agreement between the record owners shall be  
30 required. The agreement shall guarantee the use of the off-site parking area for  
31 the life of the use. An attested copy of the agreement between the owners of  
32 record shall be submitted to the municipality for recordation in a form established  
33 by the municipal attorney. Recordation of the agreement shall take place before  
34 issuance of a building permit or certificate of occupancy for any use to be served  
35 by the off-site parking area. An off-site parking agreement may be revoked only  
36 if all required off-street parking spaces will be provided in accordance with the  
37 requirements of this chapter. No use shall be continued if the parking is removed  
38 unless substitute parking facilities are provided, and the traffic engineer and the  
39 director shall be notified at least 60 days prior to the termination of a lease for off-  
40 site parking.

41 **18. On-street Curb Parking**

42 In mixed-use districts where on-street parking is allowed, **if approved by the traffic**  
43 **engineer,** on-street **curb** parking spaces in the right-of-way along the property line,  
44 **between the two side lot lines** of the site, **and/or within one block of the site** may be  
45 counted **toward the minimum required** to satisfy the minimum off-street parking  
46 requirements. **Upon approval, one on-street curb space may be substituted for one**  
47 **required off-street space.** In all other districts, on-street parking meeting the above criteria  
48 shall be counted towards off-street parking requirements if approved by the traffic  
49 engineer. **The provisions apply only to street frontages where on-street curb parking is**



1 allowed. Determination of the location and dimensions of on-street curb parking spaces  
2 to be counted toward the parking requirement shall be the authority of the traffic engineer  
3 based on a review of the situation. The street curb next to on-street parking spaces shall  
4 be a vertical curb (not a rolled curb), and a sidewalk shall extend the full length of the  
5 subject property.

6 **District Parking**

7 Minimum required off-street parking spaces may be waived for properties within the  
8 boundaries of a public parking or local improvement district that provides district-wide  
9 parking facilities.

10 **19. Stacked, and Tandem, Valet Parking**

11 **a. Nonresidential Uses**

12 Stacked, and tandem, or valet parking spaces for nonresidential uses are is  
13 allowed to count toward the minimum number of required spaces if the owner  
14 ensures through the parking agreement that attendant parking is provided for  
15 such spaces. An accessible passenger loading zone shall be provided with  
16 attendant parking services at or near a primary entrance. if an attendant is  
17 present to move vehicles. In addition, a guarantee acceptable to the municipality  
18 shall be filed with the municipality ensuring that a valet parking attendant shall  
19 always be on duty when the parking lot is in operation.

20 **b. Residential Uses**

21 Two required parking spaces for any residential dwelling may be arranged in  
22 tandem or stacked one above the other using a car stacker, so long as parking  
23 required for the dwelling unit is arranged independently from parking serving any  
24 other dwelling unit, with unobstructed vehicle access for at least one of the  
25 spaces required for each dwelling unit, and the owner assigns the two spaces  
26 toward the same dwelling and enforces their assigned use.

27 **20. Compact Parking Local Improvement Assessments and Parking**

28 **a. General Parking Spaces**

29 If approved by the traffic engineer, up to 10% of the total number of required  
30 parking spaces may be compact spaces.

31 **b. Employee and Resident Parking**

32 If approved by the traffic engineer, up to 25% of the total number of required  
33 parking spaces may be compact spaces, provided the parking spaces shall be  
34 signed for employee or resident parking only.

35 **c. Compact Space Standards**

36 Compact spaces shall be a minimum of eight feet four inches wide and meet the  
37 requirements of table 21.07-9, *Parking Angle, Stall, and Aisle Dimensions*. All  
38 spaces with a width of less than nine feet shall be signed for compact cars only.

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

42 **21. Other Eligible Reductions or Alternatives**

43 The traffic engineer and the director may approve any parking reduction or other  
44 alternative in addition to the choices above, or that increases the by-right percentage  
45 reduction from the choices above, to providing off-street parking spaces on the site of the  
46 subject development if the applicant demonstrates to the satisfaction of the traffic

1 engineer and the director that the proposed parking management strategy plan will  
2 protect surrounding neighborhoods, maintain traffic circulation patterns, and improve  
3 promote quality urban design to at least the same extent as would strict compliance with  
4 otherwise applicable off-street parking standards. Additional parking management  
5 strategies may include, for example, transportation demand programs, car sharing,  
6 unbundled parking, or a combination of strategies. The applicant shall provide a parking  
7 demand study prepared by an independent licensed traffic engineering professional that  
8 demonstrates a reduction is appropriate based on the expected parking needs of the  
9 development, availability of transit, and similar factors. The parking evaluation shall be  
10 prepared in a form and manner prescribed by the traffic engineer. It shall be determined  
11 that:

12 a. The use will be adequately served by the proposed parking due to project  
13 location, transportation characteristics of the persons residing, working, or visiting  
14 the site, or because the applicant has undertaken a program or strategy that will  
15 reduce parking demand at the site; and

16 b. Parking demand generated by the project will not exceed the capacity of or have  
17 a detrimental impact on the supply of on-street parking in the surrounding area.

## 18 G. Off-Street Loading Requirements

19 No building or structure used for any multifamily, commercial, industrial, or public/institutional use  
20 specified in the loading column of table 21.07-5 shall be erected, nor shall any such existing  
21 building or structure be altered so as to increase its gross floor area by 25% or more, without prior  
22 provision for off-street loading berth space in conformance with the following minimum  
23 requirements:

### 24 1. Types of Loading Berths

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

27 a. Type A berths shall be at least 60 feet long by 10 feet wide by 14 feet six inches  
28 high, inside dimensions. ~~Note that these minimum dimensions do not~~  
29 ~~accommodate some semi-truck combinations, and a 67 foot long by 15 foot high~~  
30 ~~berth may be needed in some situations.~~

31 b. Type B berths shall be at least 30 feet long by 10 feet wide by 14 feet six inches  
32 high, inside dimensions.

33 c. Type C berths shall be located in the rear of a lot and utilize part of an adjacent  
34 alley. The building setback shall be a minimum of five feet from the property line  
35 along the alley for the entire width of the lot.

### 36 2. Number of Spaces

37 The following numbers and types of berths shall be provided for the specified uses in  
38 table 21.07-8, *Off-Street Loading Berths*; provided, however, that, in any mixed-use  
39 district, one type C berth may be substituted for one type B berth. The uses specified in  
40 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) or Number of Dwelling Units	Berths Required	Type
<b>Residential Uses</b>			
Multiple-family dwellings	50-149 dwelling units <del>25,000--150,000</del>	1	B
	150-249 dwelling units <del>150,000--400,000</del>	2	B
	Each additional 100 dwelling units or portion <del>250,000 or</del> fraction thereof	1 additional	B
<b>Public/Institutional Uses</b>			
Cultural facilities	24,000--50,000	1	B
	50,00 <del>0</del> <sup>10</sup> --100,000	2	B
	Over 100,000, each additional 50,000 or <del>major</del> fraction thereof	1 additional	B
Educational facilities	Over 14,000	1	B
Health care facilities	10,000--100,000	1	B
	Over 100,000	2	B
Railroad freight terminals and other transportation facilities	12,000--36,000	1	A
	36,00 <del>0</del> <sup>10</sup> --60,000	2	A
	60,00 <del>0</del> <sup>10</sup> --100,000	3	A
	Each additional 50,000 or fraction thereof	1 additional	A
<b>Commercial Uses</b>			
Assembly uses	25,000--150,000	1	B
	150,00 <del>0</del> <sup>10</sup> --400,000	2	B
	Each additional 250,000 or fraction thereof	1 additional	B
All commercial establishments not otherwise specified	<del>12,000</del> 7,000--24,000	1	B
	24,00 <del>0</del> <sup>10</sup> --50,000	2	B
	50,00 <del>0</del> <sup>10</sup> --100,000	3	B
	Over 100,000, each additional 50,000 or <del>major</del> fraction thereof	1 additional	B
Visitor accommodations, <del>health services,</del> and office uses	25,000--40,000	1	B
	40,00 <del>0</del> <sup>10</sup> --100,000	2	B
	Each additional 100,000 or <del>major</del> fraction thereof	1 additional	B

**TABLE 21.07-8: OFF-STREET LOADING BERTHS**

Use	Aggregate Gross Floor Area (square feet) or Number of Dwelling Units	Berths Required	Type
Industrial Uses			
All industrial uses	12,000--36,000	1	A
	36,000 <del>10</del> --60,000	2	A
	60,000 <del>10</del> --100,000	3	A
	Each additional 50,000 or fraction thereof	1 additional	A

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

**3. Uses Not Specifically Mentioned**

In the case of a use not specifically mentioned in this section, the requirements for off-street loading ~~berths facilities~~ shall be the same as the use mentioned in this section which, in the opinion of the ~~director 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 shall be less than the total requirements for each use based upon its aggregate gross floor area, unless ~~otherwise~~ approved by the traffic engineer ~~and the director~~.

**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, ~~except as provided in subsection 21.07.090G.1.c. for type C loading berths. Where parking areas are not allowed between a building and a street, loading berths are not allowed.~~ ~~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.~~

**6. Manner of Using Loading Areas**

No ~~berth space~~ for loading or unloading of vehicles shall be so located that a vehicle using such loading ~~berth space~~ projects into any public street. Loading ~~berths 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 ~~berths 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.~~

1           **7. Signs**

2           The owners of the property shall provide, locate, and maintain loading signs as specified  
3           by the traffic engineer. Such signs shall not be counted against allowed advertising sign  
4           area or number.

5   **H. Parking and Loading Facility ~~Lot~~ Design Standards**

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

8           **1. Purpose**

9           The parking and loading facility design standards promote vehicle areas which are safe,  
10           efficient, convenient, and attractive for motorists and pedestrians. Parking facility  
11           locations within a site are encouraged to be located elsewhere than the front area  
12           between the building and its street frontage, in order to enhance the function, character,  
13           and walkability of the area.

14           **2. Applicability**

15           These standards apply to any parking facility or loading facility including all parking  
16           spaces in a development, except where stated otherwise.

17           **3. Relationship to Landscaping and Screening**

18           Parking and loading facilities shall comply with the landscaping provisions of section  
19           21.07.080. Provisions for location and screening of refuse containers and other elements  
20           are in section 21.07.080. No parking shall be permitted in any required landscaping area.

21           **4. Drainage and Storm Water Management**

22           Parking and loading facilities shall comply with the parking and loading related provisions  
23           of section 21.07.040, *Drainage, Storm Water Treatment, Erosion Control, and Prohibited*  
24           *Discharges*.

25           **5. Exterior Lighting**

26           Parking and loading areas shall comply with the exterior lighting provisions of section  
27           21.07.130.

28           **6. Pedestrian Access and Circulation**

29           ~~**Purpose**~~

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

37           ~~**Pedestrian Circulation Plan Required**~~

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

40           ~~**a. Pedestrian Connections**~~

41           ~~Parking and loading facilities shall comply with the provisions of subsection~~  
42           ~~21.07.060E., *Pedestrian Facilities*.~~ In addition to any pedestrian connections  
43           ~~required under this chapter, clearly defined on-site pedestrian walkways shall:~~

1 ~~i. Connect each primary entrance of any multifamily or nonresidential~~  
2 ~~building with all parking areas or parking structures that serve such~~  
3 ~~primary building(s), and with any required drop-off areas.~~

4 ~~ii. Within all parking lots containing 40 or more spaces, be provided~~  
5 ~~between a public right-of-way and building entrances when buildings are~~  
6 ~~not located directly adjacent to the sidewalk.~~

7 **b. Demarcation of Pedestrian Connections**

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

21 **c. Pedestrian Drop-Off Areas**

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

25 **7. Relationship to Buildings**

26 **a. Non-residential Buildings**

27 ~~Parking spaces and maneuvering aisles. The parking area shall be separated~~  
28 ~~from any nonresidential building on the same site lot by a walkway sidewalk or~~  
29 ~~landscaped area, or both, at least five feet in width, not including vehicle~~  
30 ~~overhang as defined in table 21.07-9, four feet wide.~~

31 **b. Multifamily Residential Buildings**

32 ~~Parking spaces, driveways, and driveway aisles shall be separated from any~~  
33 ~~multifamily residential building façade by a landscaped area of at least five feet in~~  
34 ~~width, not including vehicle overhang as defined in table 21.07-9, and allowing~~  
35 ~~breaks for garage entrances. The area shall be planted with 0.4 units of~~  
36 ~~landscaping material per linear foot.~~

37 **8. Location of Parking Lots within the Site**

38 ~~The location of parking and vehicle areas within. Parking lots shall be located on the~~  
39 ~~proposed development site shall be in accordance with the following standards for each~~  
40 ~~use type specified, except when an alternate configuration is approved by the traffic~~  
41 ~~engineer and the director building official.~~

42 **a. Single-Family, Two-Family, and Townhouse Dwellings General Standard**

43 ~~Single-family, two-family, and townhouse dwellings shall comply with parking,~~  
44 ~~driveway, and garage related provisions of section 21.07.100.~~

45 **b. Multifamily Commercial Developments in the NC, AC, IC, I-1, and I-2**  
46 **Districts**

1 ~~i. Relationship to Residential Areas~~

2 No more than 50% of the land area between the front lot line and the front  
3 residential building elevation shall be used for parking facilities and driveways.  
4 Multifamily uses shall comply with the parking, driveway, and garage related  
5 provisions of subsection 21.07.100F. To the maximum extent feasible, parking  
6 lots shall be located away from any adjoining residential uses while still  
7 remaining in compliance with the standards and requirements of this section.

8 **Multifamily Development in the R-3, R-4, and OG Districts**

9 ~~ii. Relationship to Street Frontage~~

10 No more than 50 percent of a site's frontage on the primary adjacent  
11 public street shall be occupied by a parking lot, perimeter parking lot  
12 buffer, parking structure, garages, or carports.

13 **c. Multifamily Development in Mixed-Use Districts**

14 ~~i. Relationship to Street Frontage~~

15 Vehicle areas are not allowed between the street and the portion of the building  
16 that complies with any of the maximum street setbacks established in section  
17 21.06.010, *Tables of Dimensional Standards*. No more than 50 percent of a  
18 site's frontage on the primary adjacent public street shall be occupied by a  
19 parking lot, perimeter parking lot buffer, or driveways.

20 ~~ii. Parking Underneath Buildings~~

21 Parking may be allowed on the ground level underneath a building  
22 provided the parking area is fully screened by a wall or façade or other  
23 architectural treatment consistent with the rest of the building in terms of  
24 style, detail, and materials.

25 ~~iii. Parking Structures~~

26 The ground floor of all parking structures must be screened by usable  
27 ground-floor commercial, institutional, or residential space of a minimum  
28 depth of 25 feet from any property line that abuts a public street.

29 **9. Vehicular Access and Circulation**

30 Parking ~~lots and structures shall~~ areas should be designed for a safe and orderly flow of  
31 traffic throughout the site. Plans shall be reviewed and approved by the traffic engineer.  
32 Applicants shall submit a vehicular circulation plan for all parking ~~lots and structures~~  
33 ~~areas~~ that demonstrates compliance with the following standards. ~~Single-family and two-~~  
34 ~~family dwellings are exempted.~~

35 **a. Key Elements**

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

39 **b. Circulation Patterns**

40 Circulation patterns within parking areas shall be well defined with ~~vertical~~ curbs,  
41 landscaping, landscaped islands, and other similar features. In order to define  
42 circulation and provide better site distance, islands ~~shall be required~~ at the end of  
43 each aisle, ~~are encouraged.~~ Parking spaces along major circulation drives are  
44 ~~prohibited.~~ Where loading facilities are required, ~~commercial~~ truck circulation  
45 shall be considered, and truck turning radii shall be shown on the vehicular  
46 circulation plan ~~when required by the traffic engineer.~~

1 **c. Parking Spaces Along Main Circulation Drives**

2 Parallel parking stalls along a primary circulation driveway that serves as an  
3 entry or exit for a parking lot shall not have a parking stall angle of 90 degrees.  
4 The design and dimensions of a primary circulation driveway with parking stalls  
5 that also serves as an entry or exit for a surrounding parking lot shall conform to  
6 municipal standards for local streets with on-street parking.

7 **d. Dead-End Parking Aisles**

8 Dead-end parking aisles may ~~shall~~ be allowed only with the approval of the traffic  
9 engineer.

10 **e. Relationship to Adjacent Properties and Parking Lots**

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

13 **f. Parking Area Entries/Driveways**

14 Entries and driveways providing access to parking areas shall conform to the  
15 municipality's ~~Policy for~~ driveway standards currently established ~~adopted~~ by the  
16 traffic engineer department. ~~A copy of those standards can be obtained from the~~  
17 ~~traffic department.~~ Access to roads owned by the state of Alaska requires  
18 department of transportation and public facilities approval and a current valid  
19 driveway permit. ~~The municipality cannot issue driveway permits for state-owned~~  
20 ~~rights-of-way.~~

21 **g. Parking and Maneuvering**

22 All parking spaces and vehicle maneuvering areas required by this section,  
23 except those that serve single-family and two-family duplex residences, shall be  
24 located entirely on private property unless specifically provided otherwise by this  
25 section.

26 **h. Alleys**

27 Subject to safety approval by the traffic engineer, ~~t~~The usable portion of an alley  
28 may be credited as aisle space ~~subject to safety approval by the traffic engineer.~~

29 **i. Parking Lot Connections**

30 Required parking areas serving a site, whether located on that same lot or on an  
31 adjacent lot, may be connected by means of a common access driveway within  
32 or between the interior of such lots.

33 **j. Ingress and Egress Points**

34 i. Ingress and egress to parking facilities shall be designed to maintain  
35 adequate sight distance and safety and as prescribed in municipal  
36 driveway standards.

37 ii. Adequate ingress to and egress from each parking space shall be  
38 provided without backing more than 25 feet.

39 **k. Parking Space Obstructions**

40 No wall, post, guardrail, or other obstruction that would restrict vehicle door  
41 opening shall be permitted within five feet of the centerline of a parking space.

42 **10. Dimensions of Parking Spaces and Aisles**

43 The parking configuration stated in the following table shall apply to all required off-street  
44 parking, except as stated elsewhere in this section.



**TABLE 21.07-9 PARKING ANGLE, STALL, AND AISLE DIMENSIONS**

<u>Parking Angle</u>	<u>Stall Width</u>	<u>Vehicle Projection</u>	<u>Aisle Width 1-way</u>	<u>Aisle Width 2-way</u>	<u>Typical Module</u>	<u>Curb Length</u>	<u>Interlock Length</u>	<u>Interlock Reduction</u>	<u>Overhang</u>
<u>A</u>	<u>S<sub>w</sub></u>	<u>V<sub>P</sub></u>	<u>A<sub>1</sub></u>	<u>A<sub>2</sub></u>	<u>M</u>	<u>C</u>	<u>I<sub>L</sub></u>	<u>I<sub>R</sub></u>	<u>O</u>
<u>0</u>	8' 4"	8' 4"	12' 6"	24	40' 8"	23' 0"	0' 0"	0' 0"	0' 0"
	9' 0"	9' 0"	12' 0"	24	42' 0"	23' 0"	0' 0"	0' 0"	
	9' 6"	9' 6"	12' 0"	24	43' 0"	23' 0"	0' 0"	0' 0"	
	10' 0"	10' 0"	12' 0"	24	44' 0"	23' 0"	0' 0"	0' 0"	
<u>20</u>	8' 4"	14' 0"	12' 6"	24	52' 0"	24' 4"	22' 11"	1' 11"	1' 3"
	9' 0"	15' 4"	12' 0"	24	54' 7"	26' 4"	24' 9"	4' 3"	0' 8"
	9' 6"	15' 9"	12' 0"	24	55' 6"	27' 9"	26' 1"	4' 6"	
	10' 0"	16' 3"	12' 0"	24	56' 6"	29' 3"	27' 6"	4' 8"	
<u>30</u>	8' 4"	16' 3"	12' 6"	24	56' 6"	16' 8"	14' 5"	1' 10"	
	9' 0"	17' 10"	12' 0"	24	59' 7"	18' 0"	15' 7"	3' 11"	1' 0"
	9' 6"	18' 3"	12' 0"	24	60' 5"	19' 0"	16' 5"	4' 1"	
	10' 0"	18' 8"	12' 0"	24	61' 4"	20' 0"	17' 4"	4' 4"	
<u>40</u>	8' 4"	17' 11"	12' 6"	24	59' 11"	13' 0"	9' 11"	1' 7"	
	9' 0"	19' 9"	12' 0"	24	63' 6"	14' 0"	10' 9"	3' 5"	1' 4"
	9' 6"	20' 2"	12' 0"	24	64' 3"	14' 9"	11' 4"	3' 8"	
	10' 0"	20' 6"	12' 0"	24	65' 0"	15' 7"	11' 11"	3' 10"	
<u>45</u>	8' 4"	18' 7"	12' 6"	24	61' 3"	11' 9"	8' 4"	1' 6"	
	9' 0"	20' 6"	12' 0"	24	65' 0"	12' 9"	9' 0"	3' 2"	1' 5"
	9' 6"	20' 10"	12' 0"	24	65' 9"	13' 5"	9' 6"	3' 4"	
	10' 0"	21' 3"	12' 0"	24	66' 5"	14' 2"	10' 0"	3' 6"	
<u>50</u>	8' 4"	19' 2"	12' 6"	24	62' 3"	10' 11"	6' 12"	1' 4"	
	9' 0"	21' 1"	12' 0"	24	66' 3"	11' 9"	7' 7"	2' 11"	1' 6"
	9' 6"	21' 5"	12' 0"	24	66' 10"	12' 5"	7' 12"	3' 1"	
	10' 0"	21' 9"	12' 0"	24	67' 6"	13' 1"	8' 5"	3' 3"	
<u>60</u>	8' 4"	19' 9"	18' 6"	24	63' 6"	9' 7"	4' 10"	1' 0"	
	9' 0"	21' 10"	18' 0"	24	67' 8"	10' 5"	5' 2"	2' 3"	1' 8"
	9' 6"	22' 1"	18' 0"	24	68' 2"	10' 12"	5' 6"	2' 5"	
	10' 0"	22' 4"	18' 0"	24	68' 8"	11' 7"	5' 9"	2' 6"	
<u>70</u>	8' 4"	19' 9"	19' 6"	24	63' 6"	8' 10"	3' 0"	0' 9"	
	9' 0"	21' 10"	19' 0"	24	67' 9"	9' 7"	3' 3"	1' 6"	1' 11"
	9' 6"	22' 1"	18' 6"	24	68' 1"	10' 1"	3' 5"	1' 7"	
	10' 0"	22' 3"	18' 0"	24	68' 5"	10' 8"	3' 8"	1' 9"	
<u>80</u>	8' 4"	19' 2"	22' 6"	24	62' 4"	8' 6"	1' 6"	0' 4"	
	9' 0"	21' 3"	22' 0"	24	66' 6"	9' 2"	1' 7"	0' 9"	2' 0"

TABLE 21.07-9 PARKING ANGLE, STALL, AND AISLE DIMENSIONS									
Parking Angle	Stall Width	Vehicle Projection	Aisle Width 1-way	Aisle Width 2-way	Typical Module	Curb Length	Interlock Length	Interlock Reduction	Overhang
A	S <sub>w</sub>	V <sub>p</sub>	A <sub>1</sub>	A <sub>2</sub>	M	C	I <sub>L</sub>	I <sub>R</sub>	O
	9' 6"	21' 4"	22' 0"	24	66' 8"	9' 8"	1' 8"	0' 10"	
	10' 0"	21' 5"	22' 0"	24	66' 10"	10' 2"	1' 9"	0' 10"	
90	8' 4"	18' 0"	23' 6"	24	60' 0"	8' 4"	0' 0"	0' 0"	2' 6"
	9' 0"	20' 0"	23' 0"	24	64' 0"	9' 0"	0' 0"	0' 0"	2' 0"
	9' 6"	20' 0"	22' 0"	24	64' 0"	9' 6"	0' 0"	0' 0"	
	10' 0"	20' 0"	22' 0"	24	64' 0"	10' 0"	0' 0"	0' 0"	

1  
2

TABLE 21.07-8: PARKING ANGLE DIMENSIONS						
A	B	C	D	E	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

TABLE 21.07-8: PARKING ANGLE DIMENSIONS						
A	B	C	D	E	F	G
Parking Angle	Stall Width	Stall to Curb	Aisle Width 1-way	Aisle Width 2-way	Curb Length	Overhang
80°	9.5	21.2	18.5	24	10.1	
	10.0	21.2	18.0	24	10.6	
	9.0	20.3	22.0	24	9.1	2.0
	9.5	20.4	21.0	24	9.6	
90°	10.0	20.5	22.0	24	10.2	
	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.

1  
2  
3  
4  
5  
6  
7  
8  
9

a. **Parking Spaces Abutting a Wall, Fence, or Obstruction Alternative Parking Space Dimensions**

When the length of a parking space abuts a wall, fence, or other obstruction, the required width of the parking space shall be increased by one foot for each side with an obstruction. If approved by the traffic engineer, an applicant may specify up to 10 percent of the total number of spaces provided be for compact cars and employ the parking configuration stated in table 21.07-9. All such spaces shall be signed for compact cars only.

TABLE 21.07-9: ALTERNATIVE PARKING ANGLE DIMENSIONS, COMPACT CARS				
Parking Angle (A)	Stall Width (B)	Stall to Curb (C)	Aisle Width (D/E)	Overhang (G)
45°	7' 7"	15' 2"	10' 9"	1' 6"
50°	7' 7"	15' 8"	11' 2"	1' 7"
60°	7' 7"	16' 4"	12' 6"	1' 8"
70°	7' 7"	16' 5"	14' 1"	1' 10"
75°	7' 7"	16' 6"	16' 4"	1' 10"
90°*	7' 7"	15' 6"	19' 0"	2' 0"

\* Assumes two-way traffic flow.

10  
11  
12  
13  
14  
15  
16

b. **Minimum Vertical Clearance**

The minimum vertical clearance for a parking facility shall be seven feet four inches, except as follows:

- i. The minimum vertical clearance for van accessible parking spaces, access aisles serving them, and vehicle routes to the van accessible spaces shall be eight feet two inches.

ii. The minimum vertical clearance for passenger loading zones including vehicular pull-up spaces, access aisles serving them, and a vehicular route between an entrance and exist and the passenger loading zone shall be nine feet six inches.

c. **Compact Parking Spaces**

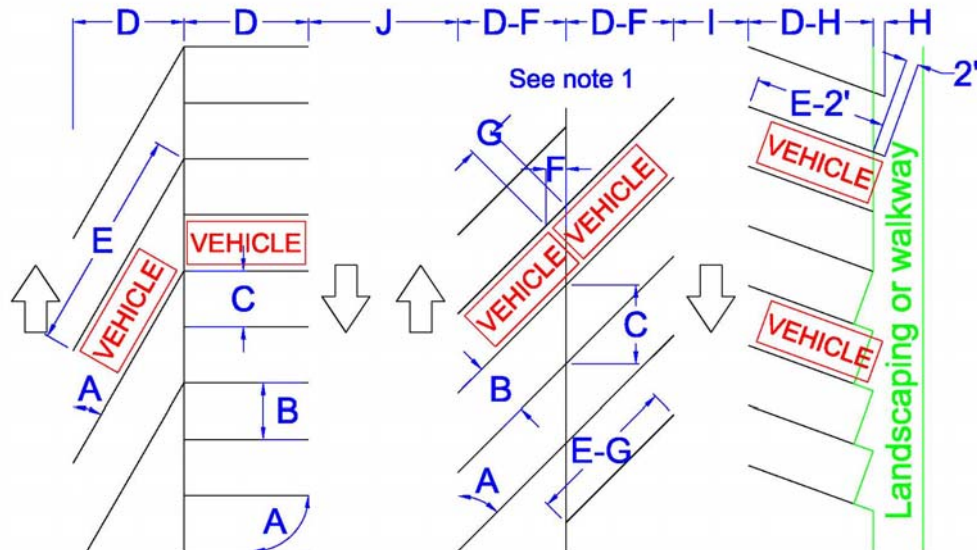
Compact parking spaces may be approved by the traffic engineer pursuant to subsection F.21. above.

d. **Recreational Vehicle Spaces**

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

e. **Calculation of Parking Space Dimensions**

The spatial relationships described in tables 21.07-9 and 21.07-9 shall be calculated in the manner depicted in the following diagram:



1. The parking angle must be equal for both bays to utilize interlock.
2. Either method of overhanging the landscaped area or walkway is acceptable.
3. Where the parking angle differs across a 1-way aisle, the greater required aisle width shall be provided.

f. **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.

**Location of Parking Spaces**

g. **General**

Except as provided in this section, all required parking spaces shall be on the same lot as the main building served, or on an abutting lot provided that the

1 ~~zoning district in which the lot is located allows for off-street parking as a~~  
2 ~~permitted principal use, site plan review use, or conditional use. Such abutting~~  
3 ~~lot shall be under the same ownership as that of the building to be served, and~~  
4 ~~there shall be a parking agreement, approved by the municipality and recorded,~~  
5 ~~which provides for parking requirements in perpetuity.~~

6 **h. *Mixed Use***

7 Any off-street or structured parking in the mixed-use districts may be on the  
8 same lot as the building served, abutting or contiguous lots, or any lot within 600  
9 feet.

10 **11. Snow Storage and Management Handling**

11 **a. Snow Storage in All Zoning Districts**

12 i. No snow shall be stored in required site perimeter or parking lot  
13 landscaping areas or on pedestrian walkways or sidewalks.

14 ii. No snow pile (not including snow sculpture) shall be taller than 15 feet,  
15 except as allowed by 21.05.060E.6., *Snow Disposal Site*.

16 iii. Snow shall not be stored on any required parking stall for more than 48  
17 hours. site (except for a *Snow Disposal Site* pursuant to subsection  
18 21.05.060E.6.) for more than 21 days.

19 iv. Temporary and long-term snow storage areas shall be depicted on the  
20 site plan. Snow melt runoff shall be directed toward a water treatment  
21 feature such as a grit or oil and water separator device, biofiltration  
22 trench, or other water treatment feature approved by the municipal  
23 engineer.

24 **b. Snow Storage in Multifamily Developments of Five or More Units**

25 In addition to the general requirements of 11.a. above, multifamily developments  
26 of five or more units shall meet the following requirements:

27 i. In addition to the area set aside to meet the off-street parking  
28 requirements of this chapter, a portion of the site equal to a minimum of  
29 20% of the area devoted to uncovered and unheated surface parking  
30 and driveways shall be set aside for snow storage. No parking credit  
31 shall be given for snow storage areas. The snow storage area shall be  
32 clearly indicated on the parking lot plan.

33 ii. The designated snow storage area may overlap with 50% of the private  
34 open space required in section 21.07.030C, provided that:

35 (A) No trees or shrubs exist in that portion of private open space  
36 which overlaps with the snow storage area; and

37 (B) All areas of the private open space used for snow storage are  
38 within 15 feet of a paved area.

39 **12. Parking Facility Maintenance Refuse and Trash Collection Areas**

40 a. Paved surface parking lots with 20 or more spaces shall be swept using tandem  
41 mechanical/vacuum or mechanical/regenerative air sweepers, brooms, or other  
42 sweepers approved by the municipal engineer. Lots shall be swept two times  
43 annually at a minimum, including once following spring melt and prior to May 15,

1 ~~and once between August 15 and October 15. Such parking lots shall not be~~  
2 ~~cleaned using air blowers or water producing run-off. All refuse and trash~~  
3 ~~collection areas shall be delineated on the parking lot layout and design plan.~~

4 **b.** ~~On-site storm water detention and runoff facilities serving parking facility runoff~~  
5 ~~shall be cleaned and maintained annually. All refuse and trash collection areas~~  
6 ~~shall be screened in accordance with 21.07.080H.2., *Refuse Collection*.~~

7 **c.** ~~Winter trash accumulation from snow storage areas shall be removed when the~~  
8 ~~snow melts and no later than May 15. Grit or oil and water separator devices~~  
9 ~~shall be cleaned and maintained two times annually at a minimum, including~~  
10 ~~once between May 1 and June 15, and once between September 1 and October~~  
11 ~~15. Refuse and trash collection areas shall not be located within any area used~~  
12 ~~to meet the minimum parking specifications of this section or on or near any~~  
13 ~~pedestrian use areas such as sidewalks or walkways.~~

14 **d.** ~~Refuse and trash collection receptacles shall not be located in a manner that~~  
15 ~~obstructs or interferes with any designated vehicular or pedestrian circulation~~  
16 ~~routes within a parking lot.~~

17 **13. Maximum Grade of Surface Parking Lots**

18 The maximum grade for any parking space or interior drive lanes shall be five percent,  
19 except that for accessible spaces the maximum grade shall be two percent, as required  
20 by the Americans with Disabilities Act. Drive lanes that are covered or heated may have  
21 an increased maximum grade with the approval of the traffic engineer.

22 **14. Paving**

23 **a. Material**

24 Except as provided in 9.b. below and in section 21.07.100D.2.a.vi., *Paved*  
25 *Driveways*, all parking ~~spaces~~ ~~lots~~, ~~loading berths~~, ~~driveways~~, and ~~points of~~  
26 ~~ingress and egress~~ shall be paved and maintained. The paving shall be with  
27 impermeable materials such as a ~~asphaltic~~ ~~concrete~~ or ~~asphalt compound~~ to  
28 standards prescribed by the traffic engineer, or other non-impervious surface as  
29 provided below. ~~except that a permeable surface may be used when approved~~  
30 ~~by the traffic engineer.~~

31 **b. Exceptions for Residences in Class B Districts**

32 Single- and two-family developments in class B districts may instead use a layer  
33 of crushed rock of no more than one inch in diameter, to a minimum depth of  
34 three inches. ~~the RL-1, RL-2, RL-3, RL-4, and TA districts are exempt from this~~  
35 ~~requirement.~~

36 **c. Paving Alternatives**

37 Pervious alternatives to the specified surface may be used, subject to approval  
38 by the municipal engineer. All surfacing shall control dust, treat storm water to  
39 municipal standards, and be such that rock and other debris is not tracked off-  
40 site. If, after construction, the municipal engineer determines that the alternative  
41 is not adhering to these requirements, the surface shall be replace.

42 **d. Landscaping in Lieu of Paving**

43 The overhang portion of the parking stall depth as defined in table 21.07-9,  
44 *Parking Angle, Stall, and Aisle Dimensions*, may be landscaped with a low-  
45 growth, hardy plant material in lieu of paving, allowing a bumper overhang while  
46 maintaining the required parking dimensions.

1           e.     **Temporary Parking Lots**

2           Temporary parking lots shall not be paved, unless required by the **traffic**  
3           **municipal** engineer.

4     I.     **Passenger **Loading Zones** **Drop-Off Areas****

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

8     **1. Passenger Loading Zone**

9     The traffic engineer may require one or more passenger loading zone spaces, depending  
10    on the type, intensity, and traffic patterns of the proposed use. The passenger loading  
11    zone for large commercial establishments or other intensive uses may be required by the  
12    traffic engineer to include one or more spaces dedicated to taxi cabs and/or other  
13    specialized high occupancy vehicles.

14    **2. Passenger Loading Zone Dimensions**

15    Any passenger loading zone that is provided for a development shall consist of one or  
16    more vehicular pull-up spaces each 20 feet in length and eight or more feet in width, with  
17    an access aisle at least five feet wide abutting the full length of the space. As an  
18    alternative, subject to approval of the traffic engineer, a passenger loading zone may  
19    consist of one or more parking spaces that meets the accessible parking space  
20    dimensional standards of 21.07.090J.

21    **3. Plan**

22    The vehicle access and circulation plan for parking facilities shall show the location and  
23    design of ~~the~~ proposed passenger loading zones ~~drop-off area~~. For certain intensive  
24    uses, the traffic engineer may require the ~~The plan to~~ shall also include a traffic control  
25    ~~plan, approved by the traffic engineer,~~ addressing projected usage, hours of operation,  
26    peak loading/unloading time, plans for directing traffic, safety measures, and other  
27    information deemed necessary by the traffic engineer to designing a safe and well-  
28    functioning drop-off area.

29    **4. Schools**

30    Drop-off and pick-up areas shall be required for schools (public or private). Drop-off and  
31    pick-up areas may be adjacent to a primary driveway access or aisle, but shall be located  
32    far enough off the roadway so that they do not cause traffic to stop. Length and design of  
33    the drop-off and pick-up areas shall be approved by the traffic engineer.

34    J.     **Accessible Parking **Spaces** **Requirements****

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

38    **1. Required Number of **Accessible Parking Spaces****

39    A portion of the total number of parking spaces provided in each parking facility  
40    ~~Accessible parking requirements~~ for commercial, industrial, public, and institutional uses,  
41    and multifamily, and mixed-use residential uses shall be accessible parking spaces. The  
42    number of accessible parking spaces shall be determined based on the total number of  
43    parking spaces provided, in accordance with table 21.07-10, *Accessible Parking Spaces*,  
44    except where otherwise stated in this section. ~~developments~~ requiring more than 25  
45    spaces, are as follows:

<b>TABLE 21.07-10: ACCESSIBLE PARKING SPACES</b>		
<b>Total Parking Spaces Provided</b>	<b>Total Accessible Spaces Required</b>	<b>Number of Accessible Spaces that shall be Van-Accessible</b>
1 to 25	1	1
26 to 50	2	1
51 to 75	3	1
76 to 100	4	1
101 to 150	5	1
151 to 200	6	1
201 to 300	7	2
301 to 400	8	2
401 to 500	9	2
501 to 1000	2 percent of total	1 for every 6 accessible spaces
1001 and over	20 plus 1 for each 100 over 1000	1 for every 6 accessible spaces

**2. Passenger Loading Zones Attendant Parking**

If passenger loading zones are provided, then at least one passenger loading zone shall be an accessible passenger loading zone. The requirements of table 21.07-10 do not apply to attendant parking spaces.

**3. Multifamily and Mixed-use Residential**

Two percent, but not less than one space, of the parking spaces provided for a multifamily or mixed-use residential development with type A and type B dwelling units as defined in AMC title 23 shall be accessible.

**4. Medical Facilities**

At least 10% of patient and visitor parking spaces provided to serve hospital outpatient facilities shall be accessible. At least 20% of patient and visitor parking spaces provided to serve rehabilitation facilities and outpatient physical therapy facilities shall be accessible.

**5. Location**

Accessible parking vehicle spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible primary entrance. The accessible route of travel shall not pass behind parking spaces. In parking facilities that do not serve a particular building, accessible parking vehicle spaces shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. In buildings with multiple accessible primary entrances with adjacent parking, accessible parking vehicle spaces shall be dispersed and located closest to the accessible entrances.

**6. Location—Exceptions**

In multilevel parking structures, van accessible parking spaces are permitted to be located on one level. Accessible parking spaces shall be permitted to be located in different parking facilities if it is demonstrated to the traffic engineer that substantially

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



1 equivalent or greater accessibility is provided in terms of distance from an accessible  
2 entrance(s), parking fee, and user convenience.

3 **7. Dimensions**

4 Car accessible spaces shall be at least eight feet four inches wide with an access aisle at  
5 least five feet wide abutting the space. Van accessible spaces shall be at least eight feet  
6 four inches wide with have an abutting access aisle at least eight feet in width.  
7 Accessible parking vehicle space access aisles shall be part of an accessible walkway  
8 route to the building or facility entrance as specified in subsection J.8. below, *Accessible*  
9 *Routes*. Two accessible parking vehicle spaces may share a common access aisle.  
10 ~~Parked vehicle overhangs shall not reduce the clear width of an accessible route.~~  
11 Accessible parking vehicle spaces and access aisles shall have ~~be level with~~ surface  
12 slopes not exceeding two percent in all directions.

13 **8. Accessible Routes**

14 **a. Location**

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

17 ~~**Width**~~

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

19 **b. Surface Textures**

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

21 **c. Changes in Levels**

22 Changes in level up to one-fourth inch may be vertical and without edge  
23 treatment. Changes in level between one-fourth inch and one-half inch shall be  
24 beveled with a slope no greater than one to two. Changes in level greater than  
25 one-half inch shall be accomplished by means of a ramp.

26 **d. Gratings**

27 If gratings are located in walking surfaces on an accessible route, then they shall  
28 have spaces no greater than one-half inch wide in one direction. If gratings have  
29 elongated openings, then they shall be placed so that the long dimension is  
30 perpendicular to the dominant direction of travel.

31 **e. Ramps**

32 ADA ramps cannot protrude into the ADA access aisle. Ramp details shall be  
33 included on the plans.

34 **9. Signs and Striping**

35 Each accessible parking vehicle space shall be designated as reserved by a sign  
36 showing the symbol of accessibility. Van-accessible spaces shall have an additional sign  
37 reading "Van-Accessible" mounted below the symbol of accessibility.

38 **a.** Eight-foot van accessible aisles require a no-parking sign.

39 **b.** Signs shall be located so that they do not obstruct the ramps or other pedestrian  
40 access.

41 **c.** A handicapped sign detail shall be included in the plan submittal per M.A.S.S.  
42 municipality sign specifications.

d. All accessible spaces and aisles shall be striped with handicap blue, including the total length of the curb encompassing the accessible parking space and accessible aisle.

**10. Implementation of ADA**

Regulations may be promulgated under section 21.03.220, *Title 21 – Text Amendments*, to implement the requirements of Americans with Disabilities Act of 1991 as it may be amended or interpreted by federal regulation.

**11. Standards for Parking as Principal Use**

Where a parking structure or lot is a permitted principal or conditional use and is not providing required parking for another principal use, accessible parking spaces in accordance with this section shall be provided.

**K. Bicycle Parking Spaces ~~Racks~~**

All nonresidential, multifamily, and mixed-use dwelling developments ~~parking lots~~ with more than 40 parking spaces required in table 21.07-5, or that use a parking reduction or alternative in subsection 21.07.090F. shall provide at least one bicycle rack with a minimum of four bicycle parking spaces, or a number of bicycle parking spaces equal to three percent of the number of required parking spaces, whichever is greater ~~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.

**L. Vehicle Queuing ~~Stacking~~ Spaces**

The vehicle queuing space requirements ~~stacking standards~~ of this section shall apply unless otherwise expressly approved by the traffic engineer:

**1. General**

Uses of land and structures requiring vehicles and customers waiting in vehicles for service at drive-through facilities, pump stations, auto service bays, or similar uses, a drive-through shall provide sufficient queuing spaces within the site to avoid vehicles waiting within the public right-of-way. Such uses shall demonstrate to the traffic engineer that sufficient in-line waiting spaces are provided as part of the parking plan to avoid encroachment into the public rights-of-way, and that queuing minimizes interference with parking area maneuvering aisles.

**2. Queuing Space Use**

Queuing spaces shall not count toward the number of parking spaces or loading berths required by this section.

**3. Minimum Number of Queuing Spaces**

Off-street queuing ~~stacking~~ spaces shall be provided as follows:

TABLE 21.07-11: VEHICLE <u>QUEUING SPACES</u> <del>STACKING AREAS</del>		
Activity Type	Minimum <u>Queuing</u> <del>Stacking</del> Spaces	Measured From
Bank teller lane	4	Teller or window
Automated teller machine drive-through	3	Teller machine
Restaurant drive-through	6	Order box

TABLE 21.07-11: VEHICLE <b>QUEUING SPACES</b> <b>STACKING AREAS</b>		
Activity Type	Minimum <b>Queuing</b> <b>Stacking</b> Spaces	Measured From
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
<b>Fueling station</b> Gasoline pump island	2 <b>(one on each side)</b>	Pump island
Security gate entrance for self storage or vehicle storage facility	[1]	Security gate
<b>Pharmacy/Drugstore drive-through, Dry Cleaning drop-off, Mail Package Service, and Other</b>	Determined by traffic engineer.	
<b>NOTES:</b> [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.		

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

4. **Design and Layout**

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

a. **Size**

**Queuing** **Stacking** spaces shall be a minimum of eight feet by 20 feet in size, except as noted above in table 21.07-11, **Vehicle Queuing Spaces Stacking Areas**, for self-storage and vehicle storage facilities.

b. **Location**

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

c. **Design**

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

M. **Parking Structures Design Standards**

1. **Purpose and Applicability** ~~Maximum Parking Waiver~~

**Parking structures and structured parking within occupied buildings shall comply with the provisions of this subsection, in order to be compatible with the architectural character and quality of adjacent buildings; avoid adverse impacts to abutting sidewalks or residential properties; use color, massing, and other architectural features to reduce apparent bulk; and screen potential visual impacts from garage lighting or parked vehicles. The requirements which follow do not apply to garages for individual dwellings. Where 75 percent or more of the parking provided for a use is in one or more parking structures, there shall be no maximum cap on the number of parking spaces.**

2. **Ground Floor Use Credit for Nearby Public Parking Structures**

A ground-floor parking structure located along a street designated by adopted plan as a main street, transit street, pedestrian-oriented street, or mixed-use street in the CMU, RMU, MT-1, MT-2, R-4, or R-4A districts shall provide a first-floor space that:

a. Has a minimum depth of 25 feet;

b. Faces on each street, except alleys, for the full length of the building elevation, excluding pedestrian and vehicle entrances and exits, stairwells, elevators, and centralized payment booths;

c. Is designed and used for residential, public/institutional, office, retail, restaurant, and other non-vehicle related commercial uses otherwise permitted or approved in the zoning district; and

d. Includes ground floor windows providing visual access and/or primary entrances that comprise at least 25% of the ground level wall area. In the mixed-use districts, spaces available in public parking structures located within 600 feet of the subject use may be counted toward the total amount of required off-street parking.

3. **Incentives for Active Uses on Second and Third Floor Floor Area Bonus for Automated and Underground Parking in the CBD and Mixed-use Districts**

Occupied habitable spaces in stories near street level are encouraged in order to contribute activity and vitality to city centers, neighborhoods, and mixed-use districts. If the second and third floor of a parking structure in the CMU, RMU, R-4, or R-4A districts has a space that meets the requirements of subsection M.2. above, then the floor area devoted to parking areas behind the second and/or third floor active use shall not count toward calculation of floor area ratio, and shall instead count as a special feature allowing for an increase of 0.25 FAR above the maximum FAR, where applicable. A floor area bonus shall be granted for underground parking structures and automated parking structures in the CBD and mixed-use districts. The bonus shall be granted at a ratio of three square feet of additional bonus area for each square foot of structured parking that is underground or within an automated parking structure.

4. **Façade Treatment**

The street-facing façade of a parking structure shall have a repeating pattern that includes no less than three instances of either (1) color change, (2) texture change, (3) material module change, or (4) expression of an architectural or structural bay through a change in plane no less than 12 inches in width, such as an offset, reveal, or projecting rib. At least one of these elements shall repeat at an interval of not more than 30 feet. The director may approve an alternative design to this standard if the applicant can demonstrate an alternative building design that significantly articulates a wall plane.

5. **Screening**

Ground level structured parking within a building shall be screened by a wall or façade or other architectural treatment consistent with the rest of the building in terms of style, detail, and materials. The perimeter of each parking structure floor above ground level shall have an opaque screen or other screening mechanism to shield vehicles from public view. The screen shall be at least 3.5 feet high measured from the finished floor elevation. An architectural treatment, such as a finished fascia, shall be provided to shield any unfinished structural elements such as electrical elements, exposed metal beams, and mechanical appurtenances. Lights visible from the exterior of the structure

1 shall be covered or screened with a diffusing lens and oriented to minimize the visual  
2 impact on adjacent streets and properties.

3 **6. Landscaping**

4 The perimeter of a parking structure shall be planted with L1 edge treatment landscaping  
5 in any downtown or mixed-use district, or with L2 visual enhancement landscaping in any  
6 other district, except at points of vehicular and pedestrian entrance and exit, where the  
7 structure abuts an alley right-of-way, where the structure directly abuts another building,  
8 or where there is a ground floor use that meets the standards of subsection M.2. above.

9 **7. Ingress and Egress**

10 a. Non-automated parking structures designed to provide more than 100 parking  
11 spaces for residential units shall have at least two vehicle entrance/exit points.

12 b. Vehicle entrance/exits shall be a minimum of 18 feet wide if one-way, and 24 feet  
13 wide if two-way.

14 c. Parking structures shall provide a minimum of 30 feet of on-site vehicle queuing  
15 that does not interfere with any parking stalls, rights-of-way, access easements,  
16 or private streets.

17 d. Structures that contain vehicle areas are subject to the building setbacks of the  
18 base zone. However, structures that contain vehicle areas where there is no  
19 forward ingress and egress from the street are subject to a garage entrance  
20 setback of 20 feet.

21 **8. Maximum Gradients**

22 The maximum gradient of driving aisles within parking stalls shall be six percent. The  
23 maximum grade of non-parking ramps shall be 12%. Where special circumstances  
24 warrant, the traffic engineer may approve steeper grades according to accepted  
25 engineering practices, subject to special conditions of approval such as a ice-free  
26 (heated) ramp surface.

27 **9. Layout and Internal Circulation**

28 The configuration of parking within a non-automated parking structure shall be subject to  
29 the requirements of table 21.07-9, except as described here: a modified layout and  
30 internal circulation pattern may be approved by the traffic engineer when it can be shown  
31 that a structure meets the design guidelines of the latest Urban Land Institute, Parking  
32 Institute, or Institute of Transportation Engineers manuals.

33 **10. Parking Stall Dimensions**

34 The parking stall angle and dimension requirements of this section shall apply to the  
35 inside dimension of structured parking spaces.

36 **11. Automated Parking Structures**

37 a. Automated parking structures are exempt from the parking stall and aisle  
38 dimensions and vertical clearance requirements of this section.

39 b. Automated parking structures shall be located wholly within an enclosed building  
40 and shall not be visible from outside the building or facility.

41 c. Automated parking structures shall be operated as attendant parking.

**N. ~~Modification of Parking Requirements~~**

~~The number of required parking spaces shall be that specified in this title unless modified pursuant to section 21.03.180, *Minor Modifications*, or section 21.03.190, *Variances*.~~

**21.07.100 RESIDENTIAL DESIGN STANDARDS**

**A. Purpose**

The standards of this section 21.07.100 are intended to promote high-quality residential development and construction; protect property values; encourage visual variety and architectural compatibility; and promote an integrated character for the municipality's neighborhoods. Specifically, the standards:

1. Promote new residential developments that are distinctive, have character, and relate and connect to established neighborhoods;
2. Provide variety and visual interest in the exterior design of residential buildings;
3. Provide for a variety of lot sizes and housing types for a range of households and age groups;
4. Enhance the residential streetscape and diminish the prominence of garages and parking areas;
5. Enhance public safety by preventing garages from obscuring main entrances or blocking views of the street from inside residences;
6. Locate active living spaces, entrances, and windows to improve the physical and visual connection from residences to the street, and foster opportunities for casual surveillance of the street and outwardly expressed proprietorship of the neighborhood; and
7. Improve the compatibility of attached and multifamily residential development with the residential character of surrounding neighborhoods.

**B. Alternative Equivalent Compliance**

The alternative equivalent compliance procedure set forth in subsection 21.07.010D. may be used to propose alternative means of complying with the intent of this section.

**C. Prohibited Structures**

Quonset huts are prohibited in all residential districts.

**D. Driveway Width**

Unless otherwise provided in this title, the total width of driveway entrances to a residential lot from a street shall not exceed 40% of the frontage of the lot on the street at the property line and 30% at the curb. However, a driveway may always be a minimum of 14 feet wide at the curb, and the maximum width of a driveway at the curb is 20 feet. Flag lots or townhouse lots are exempt from the percentage limitations, but shall have a maximum driveway width at the curb of 20 feet.

1 **E. Standards for Single-Family and Two-Family Residential Dwellings**

2 **1. Purpose**

3 This subsection 21.07.100E. is intended to promote building design that contributes to a  
4 sense of neighborhood and to the overall streetscape by carefully relating buildings,  
5 yards, and garages in relation to public streets and adjacent properties. The standards  
6 support visual variety, avoid monotony in home designs and layouts, and protect property  
7 values of both the subject property and surrounding development.

8 **2. Design Standards**

9  
10 **a. Standards for All Single- and Two-Family Residential Structures**

11 **i. Applicability**

12 The standards of this subsection E.2.a. apply to all single- and two-family  
13 residential structures.

14  
15 **ii. Permanent Foundation**

16 All dwellings shall be on a permanent foundation.

17  
18 **iii. Aspect Ratio**

19 The dimensions of a rectangle, drawn to encompass the whole structure  
20 measured at 30 inches above the ground, shall be as follows: the  
21 shorter dimension of the rectangle shall be more than 30% of the longer  
dimension of the rectangle.

22 ~~**iv. Siding Material**~~

23 ~~Metal or vinyl siding that is vertically corrugated is prohibited.~~

24 **iv. Roof Design**

25 If all of the dwelling is single-storied, it shall have a pitched roof of at  
26 least **three** 4 to 12 (rise to run), **unless waived by the director**. ~~An~~  
27 ~~applicant may request an administrative site plan review to be~~  
28 ~~considered for a waiver from this requirement.~~

29 ~~**v. Paved Driveways**~~

30 ~~All residential driveways that are less than 150 feet in length shall be~~  
31 ~~paved with concrete, asphalt, or an asphaltic all-weather surface (not~~  
32 ~~including gravel) to standards prescribed by the traffic engineer for their~~  
33 ~~entire length. For such residential driveways exceeding 150 feet in~~  
34 ~~length, at least the 25 feet of driveway closest to the public street shall~~  
35 ~~be paved with such materials. Alternative paving materials may be used~~  
36 ~~if approved by the traffic engineer.~~

37 **b. Standards for Limited Single- and Two-Family Residential Structures**

38 **i. Applicability**

39 The standards of this subsection E.2.b. apply to all residential  
40 development except for ~~residential development in the RL-1, RL-2, RL-3,~~  
41 ~~and RL-4 districts, and~~ single-family residential development on lots of  
42 one acre or greater. This section does not apply in Girdwood.

43 **ii. Mix of Housing Models**

44 Any **subdivision or** development of five or more units shall have a mix of  
45 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	5 <del>3</del>
31 or more	6 <del>4</del>

Each housing model shall have noticeably different floor plans and at least two of the following variations:

- (A) Noticeably different window placement, entrance location, and façade details; Noticeably different floor plans;
- (B) Noticeably different placement of the building footprint on the lot;
- (C) Noticeably different garage placement; or
- (D) Noticeably different roof lines.

The development shall be arranged to avoid placing identical housing types, including mirror image floorplans, on adjacent lots.

iii. *Primary Entrance*

The location of the primary pedestrian entrance of each residence shall be clearly visible from the street or public area adjacent to the front lot line and either:

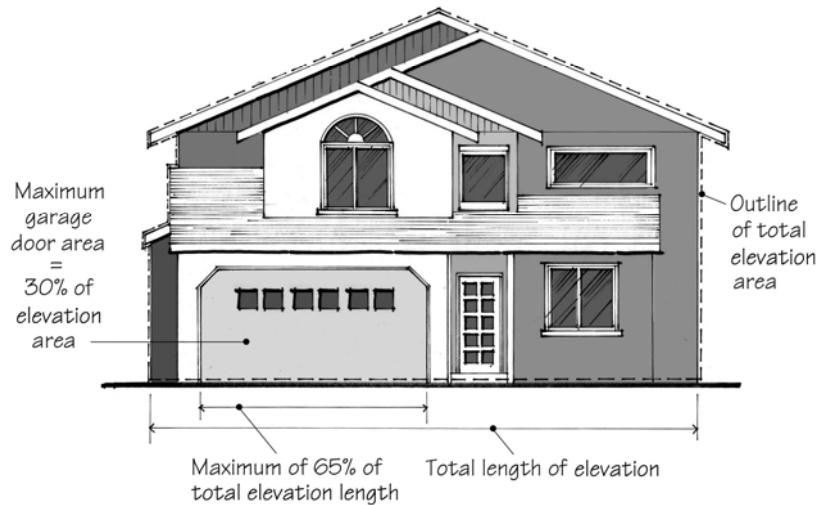
- (A) On the front elevation facing the street from which access is taken;
- (B) On a front or side façade within 10 feet of the front façade closest to the street, and incorporating a covered porch which extends at least two feet from that façade; or
- (C) On a front or side façade within 28 feet of the front façade closest to the street, and incorporating a covered porch which extends at least six feet from that façade.

A paved pedestrian walkway shall be provided from the street, sidewalk, or driveway to the primary entrance.

iv. *Garages*

- (A) Garage doors facing the street shall comprise no more than 65% of the total length of a dwelling's elevation façade and no more than 30% of the overall square footage of the dwelling's front elevation façade that faces the street. Single-story homes are exempted from the overall square footage limitation.





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

**(B)** Dwelling units with garage doors that face the street and comprise more than 50% of the width of the elevation façade shall be either on a plane with or recessed at least four feet behind the remaining front elevation façade and shall feature at least one design element from list A and one design element from list B:

**(1)** List A:

- Balcony over the garage
- Eyebrow mansard over the entire length of the garage door extending a minimum of two feet
- Entry is pronounced using a porch, columns, or other similar features

**(2)** List B:

- Windows in the garage door
- At least two different materials used on the front elevation façade
- Special paving patterns in the driveway

**(C)** The minimum front building setback may be reduced by five feet when there is a detached garage located in the rear of the lot behind the principal dwelling structure, or a rear garage attached to the principal dwelling where if the front wall of the garage is located at least 10 feet behind the front façade of the house.

**v.** Alleys

**(A)** If a development includes alleys, the lot depth requirement is reduced by half the width of the alley.

**(B)** In situations where a group of lots fronting on one side of a street between two intersections are all owned by the same person, and the lots have if a residential unit has alley or rear yard

1 access to a garage, the front setback for the living portion of the  
2 house~~s~~ (but not the garage~~s~~) may be reduced to 10 feet.

3 **(C)** If a residential unit is served by an alley and has a garage or  
4 driveway that faces the street, the garage door shall be no wider  
5 than 10 feet, and the driveway no wider than 12 feet.

6 ~~**(D)** If a residential unit is served by an alley, no driveways in the  
7 front yard shall be permitted. All vehicular access, including to  
8 garages, shall be through the alley.~~

9 **F. Standards for Townhouse Residential**

10 **1. Purpose**

11 The purpose of these standards is to provide a distinctive architectural character in new  
12 townhouse residential development that avoids featureless design.

13 **2. Applicability**

14 These standards shall apply to all townhouse structures as well as to townhouse-style  
15 construction on a single lot.

16 **3. Building Articulation and Architectural Variety**

17 **a.** No more than ~~10~~ **eight** townhouse units may be attached in a single row or  
18 building cluster.

19 **b.** The building, which is the aggregation of up to ~~10~~ **eight** townhouse units, shall be  
20 given architectural and visual interest through two or more of the following  
21 methods:

22 **i.** Providing a projection, recess, or reveal at least every twenty feet, with a  
23 minimum change of plane of two feet;

24 **ii.** Use of two or more distinct materials on each facade;

25 **iii.** Use of distinct variations in architectural style or features, such as a  
26 balcony or similar feature, between individual units;

27 **iv.** Use of distinct variations in roof form.

28 **4. Entryway Treatment**

29 ~~Entrances should be prominent and visible from the street and from parking areas.~~

30 The main entry of each unit shall be emphasized by the use of at least two of the  
31 following:

32 **a.** A porch or landing **of at least nine square feet;**

33 ~~Double doors;~~

34 **b.** A roofed structure such as a portico, awning, or marquee **of at least nine square**  
35 **feet;** or

- 1 c. The inclusion of side-lights (glazed openings to the side of the door), and  
2 transom-lights (glazed opening above the door, with the glazing at least one foot  
3 high and extending the width of the door) in the entry design.

4 **5. Garages**

- 5 a. If a development abuts an ~~includes~~ alleys, the garages shall be accessed from  
6 the alleys, and the front setback may be reduced by 5 ~~to 10~~ feet.

- 7 b. If the development does not include alleys, garages on the street-facing side of  
8 the building shall be recessed at least two feet behind the remaining façade.

- 9 c. If the development does not include alleys, the width of the driveway at any given  
10 point shall not exceed the width of the garage door. The remaining lot width shall  
11 consist of lawn/landscaping, except that a pedestrian walkway of no more than  
12 three feet in width may be provided from the street or sidewalk to the primary  
13 entrance.

14 **G. Standards for Multifamily Residential (~~Four or Fewer Stories~~)**

15 **1. Purpose**

16 The purpose of these standards is to improve the appearance of design and functionality  
17 of multifamily development, recognizing the importance of design in the economic  
18 success of neighborhood ~~urban~~ areas, the need for to be more efficient ~~in the use of~~ land  
19 use, and the need to ensure the adequate protection of the surrounding area. More  
20 specifically, these standards are intended to:

- 21 a. Provide a distinctive architectural character in new multifamily residential  
22 developments that avoids featureless design, and large building masses;

- 23 b. Promote sensitive design and planning of multifamily housing units that  
24 preserves or improves the characteristics of surrounding development;

- 25 c. Promote building design, placement, and orientation that contributes to public  
26 safety, attractive street frontages, and a sense of neighborhood and community;  
27 and

- 28 d. Promote building design, placement, and orientation that considers Alaska's  
29 northern climate in terms of weather protection and access to sunlight;

- 30 e. Protect property values of the subject property and surrounding development and  
31 promote economic investment in neighborhoods; and

- 32 f. Improve the quality of life of residents of multifamily residential dwellings.

33 It is also the intent of this section to provide flexible standards that allow for creativity and  
34 innovation.

35 **2. Applicability**

36 All development or redevelopment of multifamily residential structures ~~of four stories or~~  
37 ~~less~~ shall comply with the following requirements. In the case of mixed-use buildings,  
38 these standards shall apply to the residential portion of the structure, and the standards  
39 of section 21.07.110, Public/Institutional and Commercial Design Standards 21.04.040F.,  
40 Mixed-Use District Development Standards, shall ~~both~~ apply to the nonresidential portion

1 of the structure. In case of overlap and/or conflict, the more stringent standard shall  
2 control.

3 **3. Minimum Daylighting and Spacing of Buildings**

4 a. Except for facades built on side lot lines, at least 10% of the wall area of all  
5 building elevations shall be comprised of windows. For the purposes of this  
6 section 21.07.100, window area may include window frames, mullions, and trim,  
7 but shall not include shutters.

8 b. When more than one multifamily structure is constructed on a site:

9 i. No side, end, or rear wall of a multifamily structure shall be located within  
10 20 feet of a side, end, or rear wall of any other multifamily structure;

11 ii. No side, end, or rear wall of a multifamily structure shall be located within  
12 30 feet of the front wall of any other multifamily structure; and

13 iii. No front wall of a multifamily structure shall be located within 40 feet of  
14 the front wall of any other multifamily structure.

15 For purposes of measurement in this subsection, projections such as decks and  
16 bay windows shall not be counted.

17 **4. Menu of Design Choices**

18 To provide for flexibility and allow design creativity, the standards of this section are  
19 arranged into menus of design feature choices. The applicant shall select the minimum  
20 number of design features required from each menu.

21 **5. Design Innovation Credit**

22 The decision-making body may approve a design innovation that is not covered by the  
23 menu choices to be used as credit for up to one design feature in this section. The  
24 applicant shall demonstrate a specific feature that realizes the intent of the subsection,  
25 and that:

26 a. Achieves an equal or better design solution for the development than would  
27 result from application of the basic menu choices; and

28 b. Does not materially affect adjacent properties or streets.

29 **6. Building and Site Parking Location, Layout, and Orientation Choices**

30 In multi-building developments, the buildings are encouraged to be arranged to enclose  
31 and frame common areas. Common areas and courtyards should be convenient to a  
32 majority of units.

33 **Parking**

34 Multifamily buildings shall provide at least three orientation features from the following  
35 menu. All surface parking shall comply with at least two of the following requirements in  
36 addition to the parking lot landscaping requirements set forth in section 21.07.080:

37 **a. Courtyard Housing**

38 Credit for an orientation feature shall be granted for multifamily buildings  
39 arranged or configured to enclose and frame a housing courtyard as described in  
40 subsection 21.07.060F. Separated from any building by a landscaped strip of at  
41 least six feet in width, or

1           **b.        Orientation of Living Spaces and Windows**

2            A site may receive a credit if at least 50% of the ground-floor front elevation of all  
3            buildings fronting streets is habitable living space, and all buildings provide  
4            windows and/or primary entrances for at least 20% of the wall area of any  
5            elevation fronting on a street or having a primary entrance serving multiple  
6            dwellings. No more than one double-loaded row of parking between any building  
7            on the site and an adjacent public street, or

8           **c.        Street Frontage**

9            A development that achieves item a.ii. above may receive an additional credit for  
10           an orientation feature if the vehicle parking spaces are no closer to the primary  
11           access street than a front building elevation. The parking lot is broken up into  
12           pods of no more than 40 spaces with pods separated by landscaped areas,  
13           raised sidewalks, ornamental fencing, or similar features.

14           **d.        Street Corner Building**

15           Frame a neighborhood intersection corner with residences, pedestrian amenities,  
16           and landscaping by achieving items a.i. and a.ii. above on both street frontages  
17           at an intersection, and by locating vehicle parking spaces at least 40 feet from  
18           the lot corner.

19           **e.        Street Oriented Entrance with Separated Walkway**

20           Provide a primary entrance on each street-facing building elevation, connected to  
21           the street by a clear and direct walkway. The walkway shall be separated from  
22           and not routed through a parking facility.

23           **f.        Courtyard Entrance with Separated Walkway**

24           As an alternative to option a.v. above, provide a primary entrance that faces a  
25           housing courtyard or private common open space that meets the standards of  
26           section 21.07.030. The open space shall have a connection to an adjacent street  
27           by a walkway which is separated from and not routed through a parking facility.

28           **g.        Site Entry Feature**

29           Highlight and define a pedestrian and vehicle entrance to a development site  
30           using three or more of the following elements:

31           i.        Landscape treatment with seasonal color and trees, which clearly  
32           distinguishes and highlights the site entry.

33           ii.       Plaza or courtyard as described in subsection 21.07.060F.

34           iii.       Identifying building entrance form including a covered entry.

35           iv.       Special paving, unique pedestrian scale lighting, or bollards.

36           v.        Ornamental gate and/or fence.

37           **7.        Building Massing and Articulation Choices**

38           Each façade greater than 50 feet in length, measured horizontally, shall incorporate wall  
39           plane projections or recesses having a depth of at least 10 percent of the length of the  
40           façade, and extending at least 20 percent of the length of the façade. No uninterrupted  
41           length of any façade shall exceed 50 horizontal feet.

1 Multifamily buildings shall earn credit for at least three massing features from the  
2 following menu:

3 **a. Wall Modulation**

4 Modulate each building elevation greater than 50 feet in length, measured  
5 horizontally, by incorporating wall plane projections or recesses having a depth of  
6 at least 10% of the length of the building elevation, extending at least 20% of the  
7 length of the building elevation, for at least 60% of the building height. No  
8 uninterrupted façade shall exceed 50 horizontal feet.

9 **b. Roofline Modulation**

10 Provide a modulated roof on each building elevation, using features such as a  
11 terracing parapet, multiple peaks, jogged ridge lines, and dormers, with a  
12 maximum of 50 feet of uninterrupted roofline between roof modulation elements.  
13 Each element shall provide a minimum two foot vertical change in roofline, and  
14 the combined modulation elements shall equal at least 20% of the roofline on  
15 each building elevation.

16 **c. Roof Forms and Attic Living Spaces**

17 The incorporation of a variety of roof forms such as dormers is strongly  
18 encouraged, and the incorporation of upper floors within roof features can reduce  
19 the apparent height and mass of buildings. Buildings can achieve a massing  
20 design credit for sloped roof with dormers at intervals and a pitch no greater than  
21 12:12 that incorporates living spaces within the roof form. Such living spaces  
22 shall not be considered in determining maximum FAR, pursuant to section  
23 21.06.030C.2.

24 **d. Upper Story Setback and Terracing**

25 Provide building step backs above the second or third story on a building  
26 elevation facing the street, public park, or private open space, such that the  
27 upper floors of the building adhere to a daylight plane having a ratio of horizontal  
28 step-back to vertical rise of at least 1:1.

29 **e. Variation in Building Type or Scale**

30 Combine a minimum of two building types within each development phase and/or  
31 two building scales (which include varying the number of stories) within the same  
32 building. Larger and smaller buildings or buildings that vary in the number of  
33 stories shall be mixed. A minimum of two out of every eight dwellings shall be a  
34 distinct or separate building type or scale. In larger developments of 30  
35 dwellings or more, provide at least three or more different changes in building  
36 type or scale.

37 **f. Courtyard Housing**

38 Credit for an orientation feature shall be granted for multifamily buildings  
39 arranged or configured to enclose and frame a housing courtyard as described in  
40 subsection 21.07.060F.

41 **8. Façade Articulation and Detail Element Choices**

42 The facades ~~on each of all~~ multifamily buildings elevation shall be articulated through the  
43 incorporation of three or more of the following menu choices for every 50 feet in wall  
44 length or every dwelling unit:

45 **a. Balconies;**

- 1           **b.**     Bay or box windows;
- 2           **c.**     Porches or arctic entries;
- 3           **d.**     Dormers;
- 4           **e.**     Variations in **color, texture, and/or** materials ~~and/or colors~~;
- 5           **f.**     Variations in **type of** roof forms;
- 6           **g.**     **Projections, recesses, and reveals, expressing structural bays or other aspects of**  
7           **the architecture with a minimum change of plane of 12 inches;**
- 8           **h.**     Variation in window sizes and shapes; or
- 9           **i.**     Vertical elements that demarcate building modules.
- 10          **j.**     ~~Buildings located within 20 feet of the public right of way shall have a first floor~~  
11          ~~raised at least one foot off the ground to maintain privacy.~~
- 12          **k.**     ~~The height of each multifamily building taller than 35 feet shall be stepped down~~  
13          ~~from its highest roofline at least one full story on any end of the building located~~  
14          ~~within 50 feet of a street right-of-way or an adjacent area zoned RS-1 or RT.~~

**Roof Form**

**I.     Roof Design**

- 17           **i.**     ~~The incorporation of a variety of roof forms is strongly encouraged.~~  
18           ~~Upper-level residential floors may be incorporated into the roof form to~~  
19           ~~reduce the apparent height and mass of buildings.~~
- 20           **ii.**    ~~Multifamily residential buildings shall be designed to avoid any~~  
21           ~~continuous roofline longer than 50 feet. Rooflines longer than 50 feet~~  
22           ~~shall include at least one vertical elevation change of at least two feet.~~

**Façades and Detail Elements**

**m.    Facade Materials**

- 25           **i.**     ~~Natural, smooth face CMU shall not be used as a primary exterior finish.~~
- 26           **ii.**    ~~Siding material shall be continued down to within nine inches of finished~~  
27           ~~grade with the following exceptions:~~
  - 28           **(A)**    ~~If a secondary wainscot finish precludes this condition; or~~
  - 29           **(B)**    ~~If grade dictates a siding transition. If this occurs then the area~~  
30           ~~in question must not exceed 18 inches above grade and must be~~  
31           ~~screened by approved landscaping.~~

**n.     Windows**

- 34           ~~Except for façades built on side lot lines, all elevations on multifamily buildings~~  
35           ~~shall contain at least 12% windows.~~

**9.     Entrances **Feature Choices** and Porches**

- 36           ~~Each building shall incorporate at least three of the following massing, façade, or detail~~  
37           ~~elements to define and emphasize a primary entrance visible from the adjacent street:~~  
38

1 ~~Building/development entries shall comply with at least two of the following requirements:~~

2 ~~i. At least one main building entry shall face the primary adjacent public~~  
3 ~~street;~~

4 ~~ii. Building entrances face a courtyard that has a direct and visible~~  
5 ~~connection to an adjacent public street;~~

6 ~~iii. Building entries are connected to a public sidewalk by walkways that are~~  
7 ~~not routed through a parking lot;~~

8 ~~iv. The pedestrian entry to the site from the public right-of-way is~~  
9 ~~emphasized with landscaping, special paving, gateways, arbors, or~~  
10 ~~similar features; or~~

11 ~~v. No more than one curb cut per 100 feet of frontage. Shared driveways~~  
12 ~~are encouraged.~~

13 ~~The front entry of any structure shall be emphasized by the use of at least two of the~~  
14 ~~following:~~

15 a. ~~Entrance on a porch or landing and sheltered by a roof, canopy, portico,~~  
16 ~~marquee, or similar weather protection roof feature;~~

17 b. Double doors;

18 c. ~~Massing features such as architectural bays that define or emphasize entry~~  
19 ~~locations. A roofed structure such as a portico, awning, or marquee;~~

20 d. ~~The inclusion of side-lights (glazed openings to the side of the door), and~~  
21 ~~transom-lights (glazed opening above the door) in the entry design;~~

22 e. ~~Outdoor entrance patio, plaza, or courtyard. Decorative lighting; or~~

23 f. ~~Integrated planters or wing walls that incorporate landscaped areas and/or~~  
24 ~~seating areas. Enhanced landscaping.~~

25 **10. Weather Protection and Sunlight**

26 ~~The menu choices for weather protection and sunlight address Alaska's northern climate,~~  
27 ~~including the effects of snow, ice, low temperatures, wind exposure, and low and~~  
28 ~~seasonal sunlight conditions. Multifamily development is encouraged to maximize~~  
29 ~~comfort and convenience and to consider the microclimate impacts of the development.~~  
30 ~~Multifamily development shall earn credit for at least four features from the following~~  
31 ~~menu: Buildings shall be designed so that entries, steps, balconies, and pedestrian paths~~  
32 ~~are protected from precipitation shedding off roofs.~~

33 a. **Weather Protected Entrance**

34 ~~Provide outdoor shelter that covers at least 36 square feet for any primary~~  
35 ~~entrance that serves one dwelling, 48 square feet for any primary entrance that~~  
36 ~~serves up to four dwellings, and 64 square feet for any primary entrance that~~  
37 ~~serves more than four dwellings.~~

38 b. **Sheltered Passenger Loading Zone, Bicycle Parking, or Transit Stop**



1 Provide pedestrian shelter over a passenger loading zone, accessible parking  
2 aisle or route, bicycle parking, or a transit shelter.

3 **c. Ice-free Walkway**

4 Provide an ice-free (heated) walkway for a required walkway connection to a  
5 primary entrance.

6 **d. Orientation for Sunlight Access**

7 Credit shall be granted if buildings provide windows and/or primary entrances for  
8 at least 20% of the wall area with a solar orientation.

9 **e. Year-round Access to Sunlight**

10 Credit shall be granted if every dwelling in the development has sunlight access  
11 for at least one hour on December 21.

12 **f. Sunlight Access for Neighbors**

13 Credit shall be granted for preserving sunlight access at least six hours daily for  
14 half the year to any adjacent lot zoned PR, any sidewalk across the street, and  
15 neighboring residentially zoned property, through building placement, massing,  
16 and height.

17 **g. Daylighting**

18 Credit shall be granted for apartment daylighting and building spacing as follows.  
19 Locate at least one window in the main living area of each dwelling such that an  
20 imaginary daylight plane extending from the window and formed by an angle of  
21 60 degrees that is unobstructed for a horizontal distance of 60 feet. The plane  
22 angle shall be measured horizontally from the center of the bottom of the  
23 window. As an alternative, two angles with a sum of 60 degrees may be used.  
24 [Illustrate]

25 **h. Sun Trap**

26 Incorporate a sun trap or "pocket" that captures direct and reflected sunlight as  
27 part of a common private open space.

28 **i. Atrium**

29 Provide an atrium interior sunlit common private open space or primary entrance  
30 area which takes advantage of direct and/or reflected sunlight.

31 **j. Stepped or Terraced Building Forms**

32 Provide a stepped or terraced building form that complies with item 7.e. of the  
33 building massing menu, to reduce the wind turbulence effects of a tall building, by  
34 which the roof of the lower floor(s) deflect the highest downward wind drafts.

35 **k. Sunlit and Wind Protected Courtyards**

36 Credit shall be granted for a housing courtyard as described in subsection  
37 21.07.060F.

38 **11. Accessory Elements**

39 **a. Storage**

40 A multifamily project shall provide at least 40 square feet of covered, enclosed,  
41 and secure bulk storage areas per dwelling unit for bicycles and other belongings  
42 that typically cannot be accommodated within individual dwelling units. Storage  
43 areas shall not include closets accessed from within the dwelling, but may  
44 include garage floor area not required for vehicle maneuvering or parking.

1 Storage and other accessory buildings shall be designed with materials and/or  
2 architectural elements that are related to the principal building(s).

3 **b. Trash Receptacles/Dumpsters**

4 Where dumpsters are allowed, they shall comply with the requirements of  
5 21.07.080H. Where dumpsters are not provided, multifamily developments shall  
6 provide covered storage for trash receptacles. Such storage shall not be located  
7 between any building and the primary adjacent street frontage.

8 **c. Garages**

9 **i. Attached or Detached Garages**

10 To the maximum extent feasible, garage entries and carports shall not be  
11 located between a principal multifamily building and a required street  
12 frontage, but shall instead be internalized in building groups so that they  
13 are not visible from adjacent streets.

14 **ii. Size**

15 Garages and carports shall be limited to six spaces per structure to avoid  
16 a continuous row of garages. No more than six garage doors may  
17 appear on any multifamily building elevation containing front doors, and  
18 the plane of each garage door shall be offset at least two feet from the  
19 plane of the garage door adjacent to it.

20 **iii. Design**

21 Detached garages and carports shall be integrated in design with the  
22 principal building architecture, and shall incorporate similar and  
23 compatible **building and roof** forms, scale, materials, color, and details.

24 ~~**iv. Parking Structures**~~

25 ~~Underground parking structures are strongly encouraged for multifamily~~  
26 ~~developments.~~

27 **12. Snow Storage**

28 Snow storage areas shall be indicated clearly on all site plans. Location and design of  
29 snow storage areas in parking lots shall comply with the provisions of subsection  
30 21.07.090H.11., *Snow Storage and **Management Handling***.

31 ~~**H. Standards for Multifamily Residential (More Than Five Stories)**~~

32 ~~All multifamily residential dwellings that are five stories or greater in height shall comply with the~~  
33 ~~development standards for public/institutional, commercial, and five or more story multifamily~~  
34 ~~buildings set forth in section 21.07.110.~~

35 **21.07.110 PUBLIC/ INSTITUTIONAL AND COMMERCIAL DESIGN STANDARDS**

36 **A. Purpose**

37 This section is intended to promote high-quality building design that actively considers the  
38 surrounding context in nonresidential and mixed-use areas, encourages visual variety in such  
39 areas, ensures building layout and design suitable for the municipality's northern climate, fosters  
40 a human scale and accessible and attractive street fronts, projects a positive image to encourage  
41 economic development in the municipality, and protects property values of both the subject  
42 property and surrounding development. It is also the intent of this section to provide flexible  
43 standards that allow for creativity and innovation.

1 **B. Applicability**

2 Development of any structure that will contain a use categorized in table 21.05-1 or table 21.05-2,  
3 *Tables of Allowed Uses*, as a public/institutional or commercial use, and multifamily development  
4 of five or more stories, shall comply with the standards of this section 21.07.110. However,  
5 special-purpose public facilities such as schools, airports, and fire stations with highly unique  
6 design and functionality requirements shall be exempt from this section, if approved by the  
7 director. In the case of a mixed-use residential building, these standards shall apply to the  
8 nonresidential portion of the structure and the standards of section 21.07.100, *Residential Design*  
9 *Standards*, shall apply to the residential portion of the structure. In case of overlap and conflict,  
10 the more stringent standard shall apply.

11 **C. Alternative Equivalent Compliance**

12 The alternative equivalent compliance procedure in subsection 21.07.010D. may be used to  
13 propose alternative means of complying with the intent of this section. Applicants for alternative  
14 equivalent compliance shall demonstrate design strategies that address each of the core subject  
15 areas set forth below in subsection E.

16 **D. Prohibitions and Requirements Prohibited Structures**

17 **1. Inflatable Domes**

18 Quonset huts and inflatable domes are prohibited in all commercial and mixed-use  
19 districts.

20 **2. Rooftop Mechanical Equipment**

21 a. Rooftop mechanical equipment, including HVAC equipment and utility equipment  
22 that serves the structure, but not including telecommunications equipment or  
23 solar collectors, shall be screened through the use of parapet walls or a sight-  
24 obscuring enclosure around the equipment. The screening shall be constructed  
25 of one of the primary materials used on the primary facades of the structure, and  
26 be an integral part of the building's architectural design.

27 b. The parapet or screen shall completely surround the rooftop mechanical  
28 equipment to an elevation equal to or greater than the highest portion of the  
29 rooftop mechanical equipment being screened. Any parapet wall shall have an  
30 elevation of no more than four feet.

31 **E. Menu of Design Choices<sup>2</sup>**

32 To provide for flexibility and allow design creativity, the standards of this section 21.07.110 are  
33 arranged into menus of design feature choices. The applicant shall select a minimum number of  
34 design features from each menu. The menus are organized into three subject areas that affect  
35 the community/public realm: (a) building orientation (b) massing and articulation, and (c) northern  
36 climate response.

37 **1. Minimum Number of Design Features**

38 The minimum number of design feature choices required from each menu is provided in  
39 Table 21.07-13. Depending on building size, the applicant shall also provide between  
40 one and three additional design features, which the applicant may select from any of the  
41 menus.

2. **Shared Credit Among Menu Choices**

Achievement of a design feature choice in a menu may count toward other design features in the same menu or other menus if the feature also achieves the requirements of the other design feature choice(s).

3. **Design Innovation Credit**

The decision-making body may approve a design innovation that is not covered by the menu choices to may be used as credit for up to one design feature in this section. The applicant shall demonstrate a specific design quality that realizes achieves the intent of the subsection, and

a. Achieves an equal or better design solution for the development than would result from application of the basic menu choices; and

b. Does not materially affect adjacent properties or streets.

~~For permitted uses the director shall approve the design innovation.~~ A design innovation shall not be used to satisfy the minimum required number of design features in a menu if the minimum requirement is one design feature.

**TABLE 21.07-13: BUILDING SIZE AND MINIMUM NUMBER OF DESIGN FEATURES**

Design Feature Menus	Less than 7,000 square feet of gross floor area	7,000 to 25,000 square feet of gross floor area	Greater than 25,000 square feet of gross floor area
Building Orientation Choices	2	3	3
Building Massing Choices	0	1	2
Façade Articulation Choices	2	3	3
Weather Protection Choices	2	2	2
Sunlight and Wind Mitigation	0	1	2
Additional Choices (any menu)	1	2	3
<b>Total Number Required:</b>	7	12	15

4. **Building Orientation**

a. **Purpose**

The design choices for building orientation address the building's relationship to surrounding streets, walkways and parking, and the overall public realm. Building orientation features should encourage pedestrian accessibility and views to indoor activity, enhance public street safety and natural surveillance opportunities and provide a comfortable street environment using windows, entrances and active uses at or near the ground-level.

b. **Orientation Design Choices**

Windows on the ground level that are used to achieve the choices below shall be windows providing visual access. The sills of qualifying windows on ground-level walls shall be no more than four feet above the adjacent exterior grade. Ground-level wall areas are defined as exterior wall areas up to nine feet above finished grade.

i. **Windows and Entrances**

Provide windows and/or primary entrances on street-facing building elevations on the ground floor exterior walls that face streets for at least

1 35% of the length of the building elevation and 15% of the ground-level  
2 wall area. In mixed-use districts, the minimum percentage is **increased**  
3 **to** at least 50% of the length and 25% of the ground-level wall area **for**  
4 **that portion of the building that is 20 feet or closer to the street lot line.**

5 ii. *Building Placement to the Street*  
6 A building that achieves item b.i. above may receive credit for an  
7 additional orientation feature if at least 50% of the length of at least one  
8 ground-level street-facing building elevation is within a 20 foot maximum  
9 setback area that is to be free of motor vehicles. In mixed-use districts,  
10 at least 75% of the building elevation length shall be within a 20 foot  
11 maximum setback.

12 iii. *Corner Building*  
13 Frame an intersection corner by locating the first and second floor  
14 building facade within 20 feet of the front lot line on both street frontages,  
15 with **both ground-level wall areas achieving item b.i. above and including**  
16 windows and one or more primary entrances within 25 feet of the lot  
17 corner. Vehicle parking and driveways shall be at least 40 feet from the  
18 lot corner.

19 iv. *Street Oriented Entrances*  
20 Provide at least one primary entrance within 60 feet of a street sidewalk,  
21 or 90 feet for buildings over 25,000 square feet of gross floor area. The  
22 entrance faces and opens onto a clear and direct connecting walkway to  
23 the street sidewalk, and is clearly visible from the street and principal  
24 walkway and vehicular approaches. Two such primary entrances on  
25 separate building elevations and at least 30 feet apart may count as two  
26 orientation features.

27 v. *Upper Level Windows*  
28 ~~Front, side and corner side exterior walls facing streets and customer~~  
29 ~~entrances use~~ **Provide** a combination of windows or openings and  
30 ~~façade articulation that provide visually demarcation of each floor on~~  
31 ~~every building elevation~~ **facing a street or having a primary entrance for**  
32 **customers or visitors.** Windows shall comprise an average of 35% or  
33 more of the length all upper floor **building elevations with nonresidential**  
34 **uses, and 20% with residential uses.** ~~façades.~~ Exterior wall areas of  
35 building mechanical rooms are exempt.

36 vi. *Screening Vegetation*  
37 In areas not zoned for mixed-use, L4 screening Landscaping ~~that~~  
38 ~~provides a wooded frontage~~ along abutting streets may count as an  
39 orientation feature.

40 **5. Building Massing and Articulation**

41 a. *Purpose*  
42 The design choices for building massing / articulation are intended to reduce the  
43 apparent bulk of large buildings, encourage compatible building scale with  
44 surrounding community and achieve a comfortable human scale by providing  
45 variation in large building volumes and visual variety on façade surfaces,  
46 especially at or near ground level. Articulation should express elements such as  
47 floor and ceiling levels, window heights, structural column spacing, or internal  
48 divisions.

1           **b.     *Building Massing Choices***

2           **i.     *Upper Story***

3           Buildings with a maximum footprint of 7,000 square feet gross floor area,  
4           that do not exceed 14,000 square feet gross floor area, may count use of  
5           a second story as a building massing feature. The gross floor area of the  
6           second floor shall be a minimum of 65% of the first floor.

7           ~~*Upper Story Setback*~~

8           ~~A 20 foot minimum setback for stories above the third story for building~~  
9           ~~elevations facing the street or public open space. This requirement~~  
10          ~~applies to a maximum of two building elevations.~~

11          **ii.    *Wall Modulation***

12          Modulate **the length of** each building elevation **abutting facing** a street, **a**  
13          **PR zone,** or **abutting** residentially zoned lots. Offset the wall and  
14          foundation line at intervals so that there is at least one offset every 140  
15          feet of wall length that varies the depth of the building wall by a minimum  
16          of 12 feet. Offsets shall comprise at least 20% of the length of the  
17          building elevation, for at least 60% of the building height.

18          **iii.   *Roof Forms***

19          **(A)**    Option A: Provide a modulated roof on each building elevation  
20          facing a street or abutting residentially zoned lots, using features  
21          such as a terracing parapet, multiple peaks, jogged ridge lines  
22          and dormers, with a maximum of 140 feet uninterrupted roofline  
23          between roof modulation elements, each such element providing  
24          a minimum ~~three two~~ foot vertical change in roofline, and with  
25          modulation elements equaling at least 20% of the roofline on  
26          each building elevation.

27          **(B)**    Option B: A sloped roof with a pitch no less than 4/12 and no  
28          greater than 12/12. Rounded, gambrel, mansard and irregular  
29          roof forms shall be averaged.

30          **iv.    *Height Transitions with Upper Story Step Back***

31          Provide a building form that is terraced or otherwise transitioned  
32          **using a building wall step back above the first, second, or third floor**  
33          **along the full length of** on at least one of its elevations **facing toward**  
34          abutting streets, public parks, or ~~down to the smaller scale of~~ shorter  
35          buildings on abutting lots. The building mass shall not **penetrate**  
36          intercept a 45-degree daylight plane **that rises inward over the building at**  
37          **an angle of one foot of run for every two feet of rise, and starting at the**  
38          **building wall at the height at which the step back begins.** ~~inclined from a~~  
39          ~~height of 10 feet above existing grade at the property line. This limitation~~  
40          ~~only applies to the first 75 feet of building height. Only buildings greater~~  
41          ~~than 45 feet high may receive credit for this massing feature. The~~  
42          ~~building must be terraced or otherwise transitioned at a 45-degree angle~~  
43          ~~or less along the daylight plane. The high rise portion of a building is~~  
44          **exempt.**

45          **v.     *Upper Story Step Back—Corner Building***

46          **A building that achieves item 5.b.iv. above on two building elevations that**  
47          **meet at the corner of two streets or of a street and an open space may**  
48          **receive credit for an additional building massing feature.**

- 1 vi. ~~Public Plaza or Courtyard~~  
2 Provide a publicly accessible plaza or courtyard of at least 2,000 square  
3 feet of gross floor area and a minimum dimension in length or width of 40  
4 feet. The plaza shall be located in a courtyard or a walkway connection  
5 between the street and a primary entrance of the use, within 50 feet of  
6 and visible to the primary public entrance. The plaza shall contain at  
7 least one amenity for each 200 square feet of gross floor area.  
8 Amenities include a bench or other seating, 10 landscaping units,  
9 fountain, kiosk (no more than one), or art work. The plaza shall be  
10 located so that it receives a minimum of four hours of direct or reflected  
11 sunlight on March/September 21.
- 12 vii. *Housing*  
13 Provide The provision of upper story residential dwelling units, with upper  
14 story residential uses comprising at least 35% of the total gross floor  
15 area of the building.
- 16 c. ***Façade Articulation Choices***  
17 i. *Façade Surface Articulation*  
18 Incorporate two or more of the following detail elements at least every 50  
19 feet in wall length on each building elevation facing a street or abutting  
20 residentially zoned lots:
- 21 (A) Changes in color, texture, and/or material;
- 22 (B) Projections, recesses, and reveals, expressing structural bays or  
23 other aspects of the architecture with a minimum change of  
24 plane of 12 inches;
- 25 (C) Windows and primary entrances;
- 26 (D) Projections or breaks in the vertical rise of the building elevation
- 27 ii. *Entrance Feature*  
28 Incorporate changes in architectural mass, surface or finish to provide a  
29 clearly defined primary entrance that is easily visible from streets and  
30 sidewalks. Feature at least three of the following elements:
- 31 (A) Permanent canopies, porticos, overhangs, arcades or similar  
32 permanent pedestrian sheltering cover;
- 33 (B) Recessed or projected entrance;
- 34 (C) Arches;
- 35 (D) Peaked roof forms;
- 36 (E) Outdoor patios or plazas;
- 37 (F) Transom or sidelight windows;
- 38 (G) Architectural tilework or moldings integrated into the building  
39 design; or

- 1 (H) Integrated planters or wing walls that incorporate landscaped  
2 areas or seating areas.
- 3 iii. *Base, Middle, and Top*  
4 At least two building elevations facades consist of a recognizable base,  
5 middle and top. The base portion rises to is at least two feet above  
6 grade and is distinguished from the rest of the building such elements as  
7 a cornice, an arcade, clerestory-level windows, or other differences in  
8 color, texture and/or material, changes in material or texture. The top  
9 consists of cornice treatments with integrally textured materials such as  
10 masonry or differently colored materials (more than color painted stripes  
11 or bands), a sloping roof with overhangs, or stepped parapets.
- 12 iv. *Ground Level Expression*  
13 The objective of this design choice is to create the greatest amount of  
14 visual interest at the pedestrian level and reinforce the character of the  
15 streetscape through use of familiar-sized, human-scale design elements.  
16 Provide at least three of the following on ground-level, street-facing  
17 facades:
- 18 (A) Individual primary entrances and windows providing visual  
19 access for two or more uses on any ground floor street facing  
20 building elevation;
- 21 (B) Kickplates for windows and/or projecting window sills,  
22 ~~Projecting window sills,~~
- 23 (C) Architectural bays and mullions dividing windows;
- 24 (D) Pedestrian scale building signs and/or building lighting;  
25 ~~Pedestrian scale building lighting;~~
- 26 (E) Canopies or similar pedestrian shelter ~~weather protection;~~
- 27 (F) Tilework;
- 28 (G) Belt courses or masonry strips of distinct color or texture;
- 29 (H) Plinths for columns; or
- 30 (I) Ornamental details integrated into the façade design.
- 31 v. *Ground Level Transparency and Activity*  
32 Achievement of both the 4.b.i., *Windows and Entrances* and the 4.b.iv.,  
33 *Street Oriented Entrances* design choices from the building orientation  
34 menu may be used as credit for one articulation feature.
- 35 vi. *Four-Sided Design*  
36 Architectural features and treatments are not restricted to a single façade  
37 of any primary structure. All sides display the same level of quality and  
38 architectural interest, by including the same varieties of materials, trim,  
39 and horizontal and vertical articulation.



6. Northern Climate Design

a. Purpose

The design choices for northern climate address the combined effects of Alaska's Anchorage's northern climate, including snow, ice, rain, temperature, wind exposure, long and dark winters, and the low and seasonal sunlight conditions. Building design should maximize the use, comfort, convenience and accessibility of public spaces and walkways, optimize relationships to sunlight and wind, and consider microclimatic impacts on the site and surrounding community.

**Weather Protection Specifications**

Shelter may be composed of awnings, canopies, arcades, marques, cantilevered overhangs, colonnades, recessed ground floor facades or similar features along the pedestrian route. Sheltering is required to cover only hard surfaced areas intended for pedestrian use. The shelter design shall prevent water, ice or snow from dripping or sliding onto pedestrian areas. It shall have at least eight feet of vertical clearance and project over at least six feet of width of the pedestrian area below. However, the shelter may be indented as necessary to accommodate street trees, street lights, bay windows or similar building accessories to not less than three feet in width. The shelter shall be at least 65% open to the outside along the building facade, and open to the air at each end.

b. Weather Protection Design Choices

i. Weather Protected Entrance

Provide outdoor pedestrian shelter that covers at least 60 square feet for any primary entrance that serves a For buildings less than 7,000 square feet gross floor area, provide outdoor sheltering for a primary entrance that covers at least 60 square feet. at least 120 square feet for any primary entrance that serves a For buildings 7,000 to 25,000 gross floor area, and at least 200 square feet for any primary entrance that serves a provide outdoor sheltering for a primary entrance that covers at least 120 square feet. For buildings greater than 25,000 square feet gross floor area, provide outdoor sheltering for a primary entrance that covers at least 200 square feet.

ii. Weather Protected Passenger Loading Zone, Sheltered Drop-Off, Bicycle Parking, or Transit Shelter Area

Provide a pedestrian shelter along a portion of building facade over a taxi cab stand, valet or passenger loading drop-off zone, bicycle parking, or a transit stop shelter.

iii. Sheltered Façade Walkway

Provide pedestrian shelter or a pedestrian arcade over Weather protection above a minimum of 35% of the length of ground level building facades that contain a primary entrance or abut a street sidewalk or pedestrian walkway. The minimum percentage is 50% in mixed-use districts.

iv. Ice-free Heated Walkway Surface

Provide an ice-free (heated) walkway for a required walkway connection to a primary entrance. along a minimum of 35% of the length of ground level building elevations that contain a primary entrance or abut a pedestrian walkway. The width of the heated surface shall be equal to the width of the walkway.

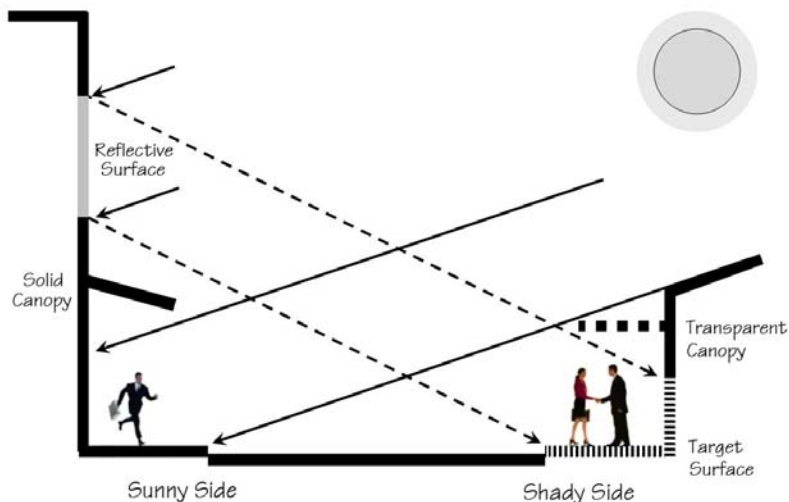
1 v. *Weather Protected Transition Space*  
2 Provide an ~~sheltered~~ outdoor, publicly accessible ~~sheltered transition~~  
3 space such as café seating along a building façade ~~that faces the street~~  
4 ~~or publicly accessible open space~~, as a transition between indoor areas  
5 and unsheltered outdoor spaces. ~~The sheltered area shall be a minimum~~  
6 ~~of 400 square feet and contain a minimum of a bench or other seating,~~  
7 ~~tree, planter, fountain, kiosk, bollard to lean on, bike rack or art work for~~  
8 ~~each 80 square feet of gross floor area.~~

9 c. **Sunlight and Wind Mitigation Choices**

10 i. *Sunlight Solar Access for Neighbors*  
11 The objective of this choice is to allow credit for preserving direct sunlight  
12 access to neighboring areas. Preserve or maximize ~~sunlight solar~~  
13 access to adjacent public parks, sidewalks across the street, and  
14 neighboring properties through building placement, height and/or  
15 massing. The building placement, massing and height shall be such that  
16 these areas receive at least four hours of ~~sunlight solar~~ access on March  
17 21 and September 21.

18 ii. *Sun Trap*  
19 Preserve or create a publicly accessible sun trap or “~~sun~~ pocket” that  
20 captures direct and reflected sunlight. ~~The sun trap shall contain at least~~  
21 ~~400 square feet of pedestrian area that is exposed to direct and reflected~~  
22 ~~sun for at least six hours on March 21 and September 21.~~

23 iii. *Reflected Redirected Sunlight as an Amenity*  
24 The objective of this choice is to allow credit for the use of reflected  
25 ~~sunlight~~ radiation. Provide ~~reflected sunlight as described in subsection~~  
26 ~~21.07.060F~~, a light-colored, reflective upper-story façade surface that  
27 ~~redirects sunlight~~ into publicly accessible pedestrian spaces and  
28 walkways, and/or any ground level walls ~~areas~~ abutting such public  
29 spaces, to brighten or increase the microclimatic comfort of those  
30 spaces. ~~Demonstrate a façade surface with a solar orientation and a~~  
31 ~~reflectance of at least 50% that will redirect sunlight to at least 400~~  
32 ~~square feet of target surface for two or more hours on March 21 and~~  
33 ~~September 21.~~



- 1                   iv.     *Transparent Sheltering Roof*  
2                   Provide a transparent roof on one of the design choices from the weather  
3                   protection menu above. The transparent roof shall allow sunlight to  
4                   penetrate through to the sheltered pedestrian area.
- 5                   v.     *Atrium*  
6                   Provide a publicly accessible atrium, galleria or similar kind of sunlit  
7                   interior space which takes advantage of direct and/or reflected sunlight to  
8                   provide brightness, orientation, and reduce the need for artificial lighting.  
9                   ~~The publicly accessible portion of the atrium shall be at least 400 square~~  
10                  ~~feet, with a minimum dimension in length or width of 16 feet. It shall be~~  
11                  ~~exposed to direct and/or reflected sun for at least four hours daily eight~~  
12                  ~~months of the year, and adhere to the plaza amenities standard in item f~~  
13                  ~~of the building massing menu.~~
- 14                  vi.     *Protective Wall Projections*  
15                  Provide balconies, marquees or similar features that project out at least  
16                  four feet or 10% of the building height, whichever is greater, to protect  
17                  public spaces and building entrances on building facades that contain a  
18                  primary entrance or that abut a street sidewalk or pedestrian walkway.  
19                  The sum of the horizontal length of all projections on the building facade  
20                  shall equal or exceed the total length of the building elevation ~~façade~~ at  
21                  the ground level.
- 22                  vii.    *Height Transition*  
23                  Provide building massing menu feature v. with the addition that the re be  
24                  a step back ~~setback~~ from the lower façade wall to the high rise tower  
25                  portion of the building of is at least 20 feet for effective wind downdraft  
26                  mitigation at the ground level.
- 27                  7.     **Wind and Shadow Impacts of Tall Buildings**  
28                  The following provisions are intended ~~measures shall be required~~ to mitigate undesirable  
29                  impacts of proposed tower development in Alaska's ~~the municipality's~~ northern climate,  
30                  including wind impacts on pedestrians at the ground level and shadowing and  
31                  temperature impacts on the development site and surrounding community. These  
32                  provisions also encourage high rise design of the highest quality to enhance the image of  
33                  the community through modulated or articulated tower massing, and facades with  
34                  windows.
- 35                  a.     ***Wind Impact Study and Mitigation.***  
36                  Buildings over 120 feet in height shall provide a wind study conducted by a  
37                  licensed design or engineering professional that evaluates the wind impact of a  
38                  proposed development, and implement the appropriate design measures to  
39                  reduce or mitigate undesirable wind conditions on streets, open spaces and other  
40                  pedestrian areas. Subject to approval by the director.
- 41                  b.     ***Shadow Impact Study and Mitigation.***  
42                  Buildings over 75 feet in height shall provide a shadow impact study by a  
43                  licensed architect to evaluate the impact of shadows potentially cast, and  
44                  implement appropriate design measures to reduce or mitigate undesirable  
45                  shadow conditions. Measures may include repositioning the tower on the lot,  
46                  increasing setbacks, reducing or shifting a building's height or mass, redesigning  
47                  a building's shape using a narrow east-west profile, or angled or terraced roof  
48                  forms. Subject to approval by the director.

1 **c. Tall Buildings in R-4A District**

2 **i. Access to Sunlight in Residential Areas**

3 Any portion of a building above a building height of 60 feet in the R-4A  
4 district shall be subject to the shadow impact study provisions of 7.b.  
5 above for the purposes of protecting residential neighborhoods and living  
6 areas. Subject to the results of the study, mitigation may be required in  
7 addition to the minimum provisions established in subsections c.i. and  
8 c.ii. below.

9 **ii. Slender Residential Towers**

10 This provision encourages slender towers that are visually lighter and  
11 more elegant than wider and bulkier towers, and that reduce wind,  
12 shadow, and viewshed impacts. The maximum plan dimension for the  
13 portion of a building above 60 feet in height in the R-4A district shall be  
14 100 feet, and the maximum average floor area shall be 8,000 square  
15 feet.

16 **iii. Minimum Tower Step Backs from Residential Streets and Open Spaces**

17 There shall be an upper floor step back on building elevations abutting a  
18 street or public park. The step back shall be such that the building  
19 elevation does not penetrate a daylight plane that rises inward over the  
20 building at an angle of one foot of run for every two feet of rise, and  
21 starting at a height of 60 feet at the building wall.

22 **iv. Incentive for Lower Step Backs**

23 If the step back occurs at a lower building height than 60 feet, the  
24 applicant may add one foot of rise to the angle of the daylight plane for  
25 every 10 feet in building height below 60 feet. In no case shall the angle  
26 be less than one foot of run for every five feet of rise.

27 **21.07.120 LARGE COMMERCIAL ESTABLISHMENTS**

28 **A. Purpose**

29 Large commercial establishments often have high visibility from major public streets, a large  
30 physical scale, and a great volume of use by many residents and visitors. As a consequence,  
31 their design determines much of the character, function, and image of this community and its  
32 streetscapes and commercial areas. The purpose of this section is to encourage major  
33 commercial developments to contribute to and respect the municipality as a unique place and to  
34 physically integrate with the community in a positive and architectural and site design sensitive  
35 manner. The standards of this section augment existing basic standards for development found  
36 elsewhere in this chapter with more specific interpretations that apply to large commercial  
37 establishments. These standards promote: a basic level of architectural variety and interest; a  
38 compatible appearance and scale; pedestrian and parking lot access; orientation of buildings and  
39 entrances in relation to surrounding streets; provisions for adaptive reuse of prominent vacant  
40 buildings; and mitigation of negative impacts of large scale commercial developments.

41 **B. Applicability**

42 The standards of this section 21.07.120 shall apply to any use in the Retail (Sales); Retail  
43 (Personal Service, Repair, and Rental); Vehicles and Equipment; Animal Sales, Service, and  
44 Care; Food and Beverage Services; or Indoor Entertainment and Recreation use categories, or  
45 any combination thereof, occupying more than 25,000 gross square feet of floor area, but not  
46 including any secondary buildings or pad lots as part of the same development site that are less  
47 than 25,000 gross square feet of floor area.

1 **C. Relationship to Other Standards**

2 The provisions of this section shall replace the provisions of section 21.07.110, *Public/Institutional*  
3 *and Commercial Building Standards*, but shall apply in addition to all other generally applicable  
4 standards found elsewhere in this chapter and title. Where there is a conflict with generally  
5 applicable standards in this chapter, the standards of this section shall apply. Where there is a  
6 conflict with district-specific standards in chapter 21.04 of this title, the district-specific standards  
7 shall apply.

8 **D. Alternative Equivalent Compliance**

9 The alternative equivalent compliance procedure in subsection 21.07.010D. may be used to  
10 propose alternative means of complying with the intent of this section. Applicants for alternative  
11 equivalent compliance shall demonstrate design strategies that address each of the mandatory  
12 standards set forth below in subsection E.

13 **E. Mandatory Standards**

14 **1. Vehicular Access**

15 Primary vehicular access shall be from a street designated collector or greater on the  
16 *Official Streets and Highways Plan*. Secondary vehicular access may be from a street  
17 designated less than a collector, provided the applicant demonstrates that any traffic and  
18 visual impacts on adjacent residential and commercial areas are sufficiently minimized.

19 **2. Weather Protection for Pedestrians**

- 20 a. Buildings and roofs shall be designed so that drainage from the roof shall not fall  
21 on sidewalks, walkways, or building entrances.
- 22 b. All primary entrances shall have a roof, canopy, arcade, overhang, or similar  
23 weather protection that is a minimum of eight feet and a maximum of 16 feet  
24 above the ground surface.
- 25 c. Building elevations that face public streets or customer parking areas and that  
26 have a walkway along the façade shall provide a canopy, arcade, overhang, or  
27 similar weather protection along at least 60% of such building elevation.

28 **3. Adjacent Residential Development**

29 Level 4 screening landscaping shall be provided along property lines that are adjacent to  
30 **a residential district** ~~residentially-zoned property~~. The landscaping shall allow for any  
31 pedestrian connections provided by this section.

32 **4. Community Space**

33 The establishment shall provide at least one public space, such as a plaza, patio,  
34 courtyard, or atrium, either indoors or outdoors, at or near the principal customer building  
35 entrance. Each public space shall be no less than 2,000 square feet in gross floor area  
36 and no dimension shall be less than 40 feet. The public space shall **meet the standard**  
37 **for plaza or courtyard in section 21.07.060F.** ~~contain at least one amenity for each 200~~  
38 ~~square feet of gross floor area. Amenities include a bench or other seating, 10~~  
39 ~~landscaping units, fountain, or art work.~~ Common spaces are encouraged to have good  
40 solar access and/or provide views of the Chugach mountains or other major landmark(s).

41 **5. Wall Modulation**

42 Each building elevation that faces a street, a customer parking area, or a residentially-  
43 zoned lot shall be modulated. The wall and foundation line shall be offset at intervals so  
44 that there is at least one offset every 140 feet of wall length that varies the depth of the

1 building wall by a minimum of 12 feet. Offsets shall comprise at least 20% of the length  
2 of the elevation, for at least 60% of the building height.

3 **6. Ground Level Expression**

4 Each building elevation that faces a public street shall provide, along at least 60% of the  
5 building length, three of the following features:

- 6 a. Windows with kickplates or projecting sills;
- 7 b. Architectural bays and mullions dividing windows;
- 8 c. Pedestrian scale ornamental lighting;
- 9 d. Tilework, **masonry or stone veneer, glass block, or other similar accent materials;**
- 10 e. Belt courses or masonry strips of distinct color or texture;
- 11 f. Plinths for columns; or
- 12 g. Ornamental details integrated into the façade design.

13 **7. Roofs**

14 Provide a modulated roof on each elevation facing a street or residentially zoned lot,  
15 using features such as a terracing parapet, multiple peaks, jogged ridge lines and  
16 dormers, with a maximum of 140 feet of uninterrupted roofline between roof modulation  
17 elements. Each modulation element shall provide a minimum of **three** ~~two~~ feet of vertical  
18 change in the roofline for at least 20% of the roofline.

19 **8. Entryways**

20 Entryways shall incorporate changes in architectural mass, surface, or finish to provide a  
21 clearly defined primary entrance that is easily visible from streets and sidewalks. At least  
22 two of the following features shall be provided:

- 23 a. Recessed or projected entrance;
- 24 b. Peaked roof form;
- 25 c. Transom or sidelight windows;
- 26 d. Ornamental architectural features such as tilework, moldings, or lighting; or
- 27 e. Integrated planters or wing walls that incorporate landscaped and/or seating  
28 areas.

29 **9. Prohibited Materials**

30 Exterior building materials shall not include the following **as a general field material:**

- 31 a. Plywood ~~without board and batten;~~
- 32 b. Unstained or untreated wood, except for cedar or redwood; and
- 33 c. T-111 siding.

34 Neon tubing shall not be an acceptable building/roofline outline feature.

1 **10. Rooftop Mechanical Equipment**

2 a. Rooftop mechanical equipment, including HVAC equipment and utility equipment  
3 that serves the structure, but not including telecommunications equipment or  
4 solar collectors, shall be screened through the use of parapet walls or a sight-  
5 obscuring enclosure around the equipment. The screening shall be constructed  
6 of one of the primary materials used on the primary facades of the structure, and  
7 be an integral part of the building's architectural design.

8 b. The parapet or screen shall completely surround the rooftop mechanical  
9 equipment to an elevation equal to or greater than the highest portion of the  
10 rooftop mechanical equipment being screened. Any parapet wall shall have an  
11 elevation of no more than four feet.

12 **11. Outdoor Sales, and Display, and Storage**

13 a. **Intent Statement**

14 To screen storage and display areas of large commercial establishments from  
15 adjacent properties, public streets, and customer entrances, and to mitigate  
16 visual and noise impacts.

17 b. **Permanent Outdoor Display, Sales, and Storage of Merchandise**

18 i. This subsection E.10. shall not apply to uses in the Vehicles and  
19 Equipment use category.

20 ii. Any outdoor storage, display, or sales location shall be permanently  
21 defined on a site plan.

22 iii. The size of permanent outdoor storage, display, and sales areas shall be  
23 10% of the footprint of the principal building, or 15,000 square feet,  
24 whichever is less.

25 iv. Permanent outdoor storage, display, and sales areas shall be contiguous  
26 to the building and shall not be within 100 feet of residential property.

27 v. All outdoor storage, display, and sales areas shall have permanent walls  
28 and/or screening fences, no more than 15 feet high, made of materials  
29 and colors designed to be complementary to those used as predominant  
30 materials and colors on the building. Merchandise shall not be stacked  
31 above the height of the screening wall or fence. Any chain link fencing  
32 used shall be dark-colored and covered with a windscreen, which shall  
33 be maintained in good repair.

34 vi. Outdoor storage, display, and sales areas shall be counted when  
35 calculating required parking.

36 c. **Temporary Outdoor Display and Sales**

37 Temporary outdoor display and sales of merchandise shall not be located in  
38 required parking areas, on pedestrian walkways or sidewalks, or in required  
39 landscaping.

40 **12. Master Site Plan and Secondary Buildings**

41 a. **Intent**

42 To integrate the location, orientation, and appearance of all structures and  
43 improvements within a large commercial establishment as a unified, coherent  
44 and accessible site development.

1           **b.       Master Site Plan**

2           Large commercial establishments on sites that include more than one building, or  
3           that include multiple pad lots or platted lots for separate commercial  
4           establishments, shall, at the time of plat review or major site plan review, be  
5           required to establish a master site plan for the location, design and orientation of  
6           principal and secondary buildings on site.

7           **c.       Applicability of Large Commercial Establishment Regulations**

8           Building and site design standards for large commercial establishments in this  
9           section, unless stated to apply specifically to principal buildings, apply to both  
10          principal and secondary buildings on any commercial tract within a large  
11          commercial establishment site or site master plan area.

12          **d.       Secondary Building Orientation to Public Streets**

13          Peripheral secondary buildings located at the edge of the site next to a public  
14          street or street corner shall provide at least one customer entrance facing each  
15          abutting public street. A corner entrance facing both streets may meet this  
16          requirement. In such a case, for purposes of design requirements in this section  
17          for facades with customer entrances, the entrance shall be considered to be on  
18          both facades.

19   **F.       Optional Standards Menu**

20           In addition to the mandatory standards of subsection E. above, establishments shall choose three  
21           features from the options below.

22          **1.       Location of Parking Lots**

23           No more than 50% of vehicle parking spaces provided shall be located in the front  
24           parking area (defined in chapter 21.14).

25          **2.       Multiple Entrances**

26           The principal building(s) shall have customer entrances on at least two sides of the  
27           building that face an abutting street from which access to the site is taken, with at least  
28           one of the required entrances facing the street to which the building is closest. A corner  
29           entrance shall be counted as an entrance on either façade.

30          **3.       Pedestrian-Friendly Entrance**

31           At least one customer entrance of the principal building is located within 100 feet of the  
32           property line abutting the street from which the main access to the site is taken.

33          **4.       Building Façade Walkways**

34           Walkways at least six feet wide (at least eight feet if abutting a parking lot without wheel  
35           stops to prevent vehicle overhang into the walkway) shall be provided along the full  
36           length of every building façade that has a customer entrance or abuts a customer parking  
37           lot.

38          **5.       Upper Level Windows**

39           Elevations facing streets and residentially zoned lots shall provide windows along 35% of  
40           each upper floor façade. For the purposes of this section only, floors shall be considered  
41           15 foot increments in height, and rooftop mechanical penthouses are exempt.

42          **6.       Screening Vegetation**

43           In areas not zoned mixed-use, L4 screening landscaping shall be provided along one lot  
44           line that abuts a public street.



1           **7. Foundation Landscaping**

2           Planting beds at least six feet wide shall be provided along at least 50% of each building  
3           elevation that faces public streets and/or parking areas.

4           **8. Ice-free Heated Walkway Surface**

5           Provide an ice-free (heated) walkway along a minimum of 35% of the length of the  
6           building elevation that contains a primary entrance. The walkway shall be a minimum of  
7           six feet wide.

8           **21.07.130 EXTERIOR LIGHTING**

9           **A. Purpose**

10           The intent of this section is to foster outdoor lighting for development in the municipality that is:  
11           adequate for safety and convenience; in scale with the activity to be illuminated and its  
12           surroundings; directed to the surface or activity to be illuminated; designed to make people and  
13           objects clearly visible; and designed to help create a pleasant nighttime environment. Specific  
14           purposes include:

15           **1.**       Provides safety and personal security as well as convenience and utility in areas of public  
16           use or traverse, for municipal, commercial, industrial, multifamily residential, and  
17           institutional uses where there is outdoor public activity during hours of darkness;

18           **2.**       Controls glare and excessive brightness to improve visual performance, allow better  
19           visibility with relatively less light intensity, and protect residents from nuisance and  
20           discomfort glare;

21           **3.**       Controls trespass light onto neighboring properties to protect inhabitants from the  
22           consequences of stray light shining in inhabitants' eyes or onto neighboring properties;

23           **4.**       Results in cost and energy savings to establishments by carefully aiming and directing  
24           light only at the surface area or activity to be illuminated, using only the amount of light  
25           necessary;

26           **5.**       Fits the needs and tolerances of the surrounding district, to provide adequate illumination  
27           levels in commercial districts while protecting residential areas and places of sleep from  
28           excessive light; and

29           **6.**       Controls light pollution to minimize the negative effects of misdirected light and recapture  
30           views to the winter night sky.

31           **B. Applicability**

32           **1. Outdoor Site Lighting**

33           All outdoor lighting shall comply with the standards of this section, unless exempted in  
34           subsection C. below.

35           **2. Sign Illumination**

36           Sign illumination is subject to standards of subsection 21.11.090A.

37           **C. Exempt Lighting**

38           The following luminaires and lighting systems are exempt from the requirements of this section:

- 1 1. Decorative seasonal lighting, provided that individual lamps do not exceed a light output  
2 of 200 lumens;
- 3 2. Temporary lighting for emergency or nighttime work and construction;
- 4 3. Temporary lighting for theatrical, television, and performance areas, or for special public  
5 events;
- 6 4. Lighting for a special district or building that, according to an adopted municipal plan or  
7 ordinance, is determined to require special lighting aesthetics as part of its physical  
8 character;
- 9 5. Lighting required and regulated by the Federal Aviation Administration;
- 10 6. Public street and right-of-way lighting;
- 11 7. Interior lighting, including lighting of covered parking areas in a parking structure, unless  
12 such lighting is not in compliance with light trespass provisions of subsection E.2. below;
- 13 8. Emergency egress lighting as required by building codes;
- 14 9. Lighting of the U.S., State of Alaska, and municipal government flags; and
- 15 10. Lighting of public monuments and statuary.

#### 16 **D. Site Lighting Plan**

17 For all lighting subject to this section, a site lighting plan, which is stamped and signed by a  
18 registered engineer or certified lighting professional who prepared the plan, shall be submitted to  
19 the decision-making body for review and approval. A site lighting plan is not required for single-  
20 family, two-family, and three-family residential buildings on individual lots. The site lighting plan  
21 shall include the following:

- 22 1. Lighting zone assignments;
- 23 2. Location of all exterior lighting by type;
- 24 3. A luminaire schedule which includes but is not limited to catalog cut sheets by  
25 manufacturers and drawings of the illuminating devices, fixtures, lamps, supports,  
26 reflectors, BUG ratings of all luminaires and initial lamp lumens, and other devices  
27 proposed; and
- 28 4. Mounting height of all luminaires.

#### 29 **E. Lighting Zones Established**

- 30 1. Using table 21.07-14, the municipality shall determine and maintain lighting zones to  
31 ensure that lighting standards fit the needs and tolerances of Anchorage's broad range of  
32 urban and rural, commercial and residential, and low versus high intensity use areas.  
33 Lighting zones are intended to allow for relatively higher illumination intensities in  
34 commercial districts, while protecting the more light-sensitive neighborhoods and  
35 residential areas from excessive or misdirected light.

1  
2  
3

2. The lighting zone (LZ) of a site or project shall determine the standards for lighting as specified in this section. An increase of one LZ number may be granted to a specific site or project through the variance process.

<b>TABLE 21.07-14: LIGHTING ZONE CHARACTERISTICS</b>			
<b>Lighting Zone</b>	<b>Ambient Light Level</b>	<b>Lighting Zone Description</b>	<b>Representative Locations [1]</b>
<b>LZ-3</b>	<b>Moderately high</b>	Areas where the vision of residents and users is adapted to moderately high light levels. Lighting is generally desired for safety, security, and/or convenience, and it is often uniform and/or continuous. After curfew, lighting may be extinguished or reduced in most areas as activity levels decline.	Medium to high intensity commercial and industrial districts.
<b>LZ-2</b>	<b>Moderate</b>	Areas where the vision of residents and users is adapted to moderate light levels. Lighting may typically be used for safety and convenience but it is not necessarily uniform or continuous. After curfew, lighting may be extinguished or reduced as activity levels decline.	Medium to high density residential neighborhoods, and institutional uses that are typically located within or near residential areas such as schools.
<b>LZ-1</b>	<b>Low</b>	Areas where the vision of residents and users is adapted to low light levels. Lighting may be used for safety and convenience but is not necessarily uniform or continuous. After curfew, most lighting should be extinguished or reduced as activity levels decline.	Rural areas, low-density urban areas, natural open spaces.
<b>LZ-0</b>	<b>No ambient lighting</b>	Areas in which human activity is subordinate in importance to nature. The vision of human residents and users is adapted to total darkness, and little or no lighting is needed except for safety and security. When not needed, lighting should be extinguished.	Undeveloped areas of Chugach State Park and Chugach National Forest
<b>Additional Standards:</b>			
[1] Lighting zones 1, 2, and 3 are shown on the Anchorage Bowl Lighting Zone map. Within the Turnagain Arm Area Plan area, all areas designated residential are in LZ-1, while areas designated commercial are in LZ-2. Girdwood is exempt from the standards of this section. Undeveloped portions of Chugach State Park and Chugach National Forest are within LZ-0. Proposed development with special lighting applications such as ski resorts or outdoor stadiums, which may exceed allowable lighting limits, shall be submitted for review under the provisions of subsection J. below.			

4

**F. General Lighting Standards**

5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

All outdoor lighting systems, except for illuminated signs which are regulated in chapter 21.11, shall comply with the following general standards and trespass provisions of this subsection, in addition to the standards, as applicable, of subsection G. below.

1. Sites shall be lighted according to the current recommended practices of the Illuminating Engineering Society of North America (IESNA).
2. Directional light sources, such as LED sources, shall be shielded or limited to a maximum nighttime luminance (sunset to sunrise) of 800 candelas per square meter.
3. Exterior exposed neon tube lighting is prohibited in residential zoning districts.
4. All fixtures for area lighting in areas accessible to the general public shall use white light sources that have a color rendering index (CRI) of 65 or greater.

- 1        5.        The lighting of a building façade for architectural, aesthetic, or decorative purposes is  
 2        permitted subject to the following restrictions:
- 3            a.        Upward aimed building façade lighting shall not exceed 1800 lumens. All upward  
 4            aimed light shall be fully shielded, fully confined from projecting into the sky by  
 5            eaves, roofs, or overhangs, and mounted as flush to a wall as possible.
- 6            b.        Building façade lighting exceeding 1800 lumens shall be fully shielded, aimed  
 7            downward, and mounted as flush to a wall as possible.
- 8            c.        Building façade lighting shall be fully contained within the vertical surface of the  
 9            wall being illuminated.
- 10          d.        Building façade lighting that is measurable at the ground level shall be included  
 11          in the maximum allowable light limits.
- 12        6.        All luminaires shall be properly and permanently installed and maintained to meet the  
 13        required standards of this section.
- 14        7.        The illuminance levels provided in table 21.07-15 shall be used for enforcement should  
 15        concerns of obtrusive lighting or questions of compliance arise. Maximum light levels  
 16        shall be measured at a height of five feet six inches in a plane perpendicular to the line-  
 17        of-sight when looking at the brightest source in the field of view. This provision shall  
 18        apply to all exterior lighting and to interior lighting if the light source is visible off-site. The  
 19        illuminance values provided in table 21.07-15 shall be measured at the lot line. If a lot  
 20        line serves as a dividing line between two lighting zones, the stricter of the two light  
 21        trespass limitations shall apply.
- 22        8.        Exterior lighting shall conform to the light trespass limitations of table 21.07-15 within 12  
 23        months from the effective date of this section.

TABLE 21.07-15: LIGHT TRESPASS LIMITATIONS	
Lighting Zone of Neighboring Property	Maximum Light Levels at the Property Line
LZ-0	0.1 foot-candles
LZ-1	0.1 foot-candles
LZ-2	0.3 foot-candles
LZ-3	0.8 foot-candles
NOTE: The listed maximum illuminance levels are not intended to be measured during conditions of high reflectance, such as immediately after a fresh snowfall.	

- 24
- 25        **G.        Requirements for Multifamily Residential and Nonresidential Outdoor Lighting**
- 26            1.        **Lumen Limits**
- 27            For multifamily residential uses and nonresidential uses, all outdoor lighting shall comply  
 28            with the following requirements:
- 29            a.        **Total Site Lumen Limit**

The total installed initial lamp lumens of all lighting systems on the site shall not exceed the total site lumen limit. The total site lumen limit shall be determined using one of the three methods listed in table 21.07-16. Only one method shall be used per permit application, and for sites with existing lighting, existing lighting shall be included in the calculation of total installed lumens.

**b. Limits to Off-site Impacts**

All luminaires shall be rated and installed according to table 21.07-19.

**2. Alternate Performance Method**

[RESERVED]

**TABLE 21.07-16: ALLOWED TOTAL LUMENS PER SITE FOR MULTIFAMILY RESIDENTIAL AND NONRESIDENTIAL OUTDOOR LIGHTING**

METHOD	LIGHTING ZONE	LUMEN ALLOWANCE	RESTRICTIONS
<b>1. Per Parking Space</b>	LZ-0	500 lm/space	May only be applied to properties with up to 10 parking spaces (including accessible spaces)
	LZ-1	700 lm/space	
	LZ-2	900 lm/space	
	LZ-3	1200 lm/space	
<b>2. Simple Hardscape</b>	LZ-0	1.5 lm/sf of hardscape	Any project
	LZ-1	2.5 lm/sf of hardscape	
	LZ-2	4.0 lm/sf of hardscape	
	LZ-3	8.0 lm/sf of hardscape	
<b>3. Complete Site</b>	LZ-0	10 lumens per lineal foot of hardscape perimeter; plus	Any project
		1.0 lm/sf of hardscape; plus	
		Specific use allowance(s) from table 21.07-18	
	LZ-1	22,000 lumens per site; plus	
		20 lumens per lineal foot of hardscape perimeter; plus	
		2.0 lm/sf of hardscape; plus	
		Specific use allowance(s) from table 21.07-18	
	LZ-2	33,000 lumens per site; plus	
		30 lumens per lineal foot of hardscape perimeter; plus	
		3.0 lm/sf of hardscape; plus	
		Specific use allowance(s) from table 21.07-18	
	LZ-3	55,000 lumens per site; plus	
		65 lumens per lineal foot of hardscape perimeter; plus	
		7.0 lm/sf of hardscape; plus	
		Specific use allowance(s) from table 21.07-18; plus	

**TABLE 21.07-16: ALLOWED TOTAL LUMENS PER SITE FOR MULTIFAMILY RESIDENTIAL AND NONRESIDENTIAL OUTDOOR LIGHTING**

<b>METHOD</b>	<b>LIGHTING ZONE</b>	<b>LUMEN ALLOWANCE</b>	<b>RESTRICTIONS</b>
<b>NOTE:</b> When lighting intersections of site drives and public streets, the effective property line for the purposes of this section may be extended to include the public right-of-way (i.e., determination of hardscape areas in methods 2 and 3).			

1

**TABLE 21.07-17: ADDITIONAL LUMEN ALLOWANCE FOR SPECIFIC APPLICATIONS WHEN USING THE COMPLETE SITE METHOD**

<b>Lighting Application [1]</b>	<b>LZ-0</b>	<b>LZ-1</b>	<b>LZ-2</b>	<b>LZ-3</b>
Building entrances or exits. Per door. Luminaires qualifying for this allowance must be within 20 feet of the entrance.	750 lumens	2,000 lumens	4,000 lumens	6,000 lumens
Entrances at senior care facilities, police stations, hospitals, fire stations, and emergency vehicle facilities. Per primary entrance(s) only. May be used in lieu of building entrance allowance only for these facility types. Luminaires qualifying for this allowance must be within 100 feet of the entrance.	N/A	4,000 lumens	8,400 lumens	12,000 lumens
Building facades. Areas of building façade that are illuminated. Luminaires qualifying for this allowance must be aimed at the façade and capable of illuminating it without obstruction.	N/A	N/A	12 lumens/sf	25 lumens/sf
Outdoor sales lots. Uncovered sales lots used exclusively for the display of vehicles or other merchandise for sale. May not include driveways, parking, or other non sales areas. Luminaires qualifying for this allowance must be within 10 mounting heights of the sales lot area.	N/A	10,000 lumens plus 10 lumens/sf	10,000 lumens plus 40 lumens/sf	15,000 lumens plus 60 lumens/sf
Outdoor sales frontage. Frontage immediately adjacent to the principal viewing location(s) and unobstructed for its viewing length. A corner sales lot may include two adjacent sides provided that a different principal viewing location exists for each side. Luminaires qualifying for this allowance must be located between the principal viewing location and the frontage outdoor sales area.	N/A	N/A	1,650 lumens/ft	2,850 lumens/ft
Hardscape ornamental lighting. For the total illuminated hardscape area.	N/A	N/A	1.2 lumens/sf	2.4 lumens/sf
Drive up windows. Per window. Luminaires qualifying for this allowance must be within 2 mounting heights of the sill of the window.	N/A	2,700 lumens	4,000 lumens	8,000 lumens
Guard stations. Area of guardhouse plus 2,000 sf per vehicle land. Qualifying luminaires must be within two mounting heights of a vehicle lane or the guardhouse.	N/A	10 lumens/sf	25 lumens/sf	50 lumens/sf
Outdoor dining. For the total illuminated hardscape of outdoor dining. Qualifying luminaires must be within two mounting heights of the hardscape area of outdoor dining.	N/A	1 lumen/ sf	10 lumens/ sf	15 lumens/ sf

**TABLE 21.07-17: ADDITIONAL LUMEN ALLOWANCE FOR SPECIFIC APPLICATIONS WHEN USING THE COMPLETE SITE METHOD**

<b>Lighting Application [1]</b>	<b>LZ-0</b>	<b>LZ-1</b>	<b>LZ-2</b>	<b>LZ-3</b>
Vehicle service station hardscape. For the total illuminated hardscape area less area of buildings, under canopies, off property, or obstructed by signs or structures. Luminaires qualifying for this allowance must be illuminated the hardscape area and must not be within a building, below a canopy, beyond property lines, or obstructed by a sign or other structure.	N/A	5 lumens/ sf	10 lumens/ sf	25 lumens/ sf
Vehicle service station canopies. For the total area within the drip line of the canopy. Luminaires qualifying for this allowance must be located under the canopy.	N/A	30 lumens/ sf	60 lumens/ sf	80 lumens/ sf
Vehicle service station uncovered fuel dispenser. Per fueling side (two max) per dispenser. Luminaires qualifying for this allowance shall be within two mounting heights of the dispenser.	N/A	7,500 lumens	15,000 lumens	20,000 lumens
All other sales canopies. For the total area within the drip line of the canopy. Luminaires qualifying for this allowance must be located under the canopy.	N/A	10 lumens/ sf	40 lumens/ sf	65 lumens/ sf
Non-sales canopies. For the total area within the drip line of the canopy. Luminaires qualifying for this allowance must be located under the canopy.	N/A	5 lumens/ sf	12 lumens/ sf	25 lumens/ sf

**NOTES:** [1] All area and distance measurements in plan view unless otherwise noted.

1

**TABLE 21.07-18: PRESCRIPTIVE METHOD MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS [1]**

<b>Lighting Zone</b>	<b>Backlight Rating</b>				<b>Uplight Rating</b>	<b>Glare Rating</b>
	>2 mounting heights from property line	1 to 2 mounting heights from property line and properly oriented	0.5 to 1 mounting height to property line and properly oriented	<0.5 mounting height to property line and properly oriented		
<b>LZ-0</b>	<b>B0</b>	<b>B0</b>	<b>B0</b>	<b>B0</b>	<b>U0</b>	<b>G0</b>
<b>LZ-1</b>	<b>B0-B1</b>	<b>B0-B1</b>	<b>B0</b>	<b>B0</b>	<b>U0-U1</b>	<b>G0-G1</b>
<b>LZ-2</b>	<b>B0-B2</b>	<b>B0-B2</b>	<b>B0-B1</b>	<b>B0</b>	<b>U0-U2</b>	<b>G0-G2</b>
<b>LZ-3</b>	<b>B0-B3</b>	<b>B0-B3</b>	<b>B0-B2</b>	<b>B0-B1</b>	<b>U0-U3</b>	<b>G0-G3</b>

**NOTES:** [1] A luminaire may be used if it is rated as follows according to the lighting zone of the site. If the luminaire is installed in other than the intended manner, the rating shall be determined to account for the actual photometric geometry. Luminaire equipped with adjustable mounting devices permitting alteration of luminaire aiming in the field shall not be permitted. The luminaire must be mounted with backlight toward the property line.

2

**H. Reduced Lighting Period**

The intent of this subsection is to reduce unnecessary exterior lighting levels during nighttime hours when a business or institution is not open, while maintaining safety and security. Except as provided in H.2. below, exterior lighting systems for nonresidential uses shall be turned off or

6

1 lighting levels reduced by at least 50% during time periods specified below. The reduction shall  
2 be determined as an overall average for a site.

3 **1.** The reduced lighting period shall be as follows:

4 **a.** LZ-1: beginning at 10:00 p.m. and continuing until dawn or one hour before the  
5 start of business, whichever is earlier.

6 **b.** LZ-2: beginning at 10:00 p.m. or one hour after the close of business, and  
7 continuing until dawn or one hour before the start of business, whichever is  
8 earlier.

9 **c.** LZ-3: beginning at midnight or one hour after the close of business and  
10 continuing until dawn or one hour before the start of business, whichever is  
11 earlier.

12 **2.** Exceptions to a reduced lighting period:

13 **a.** When there is only one luminaire on the site, provided it conforms to the  
14 standards of this section.

15 **b.** Other code-required lighting for steps, stairs, walkways, and building entrances.

16 **c.** Security lighting controlled by motion sensor and connected to a security system.

17 **I. Installation of Lighting**

18 Following installation of exterior lighting on a site, a registered engineer or certified lighting  
19 professional shall certify in writing that the location, type, mounting height, and photometric data  
20 all meet the approved site lighting plan of subsection D. above. No final certificate of zoning  
21 compliance shall be issued before receipt of the required certification.

22 **J. Special Purpose Lighting**

23 **1.** The director may approve exterior lighting systems for unique land uses that do not  
24 comply with the technical requirements of this section but are consistent with its intent.  
25 This administrative review shall performed unless the exterior lighting is already being  
26 reviewed as part of a major site plan review or conditional use approval. Each request  
27 for approval shall be evaluated based on the standards and criteria set forth in subsection  
28 J.2. below. Lighting systems subject to this provision may include installations such as:

29 **a.** Outdoor athletic fields and recreation areas; or

30 **b.** Industrial sites having special requirements such as the Port of Anchorage,  
31 Alaska Railroad corporation facilities, or Ted Stevens Anchorage International  
32 Airport.

33 **2.** To obtain approval under this subsection, applicants shall provide the following:

34 **a.** Information which documents that the proposed lighting installation is not within  
35 LZ-1, except for outdoor recreational uses, ornamental lighting or necessary  
36 construction lighting; and



1           **b.**    A lighting plan as required in subsection D. above with a statement from a  
2                   registered engineer or certified lighting professional which provides alternate  
3                   designs that approach the standards of this section to the maximum extent  
4                   possible while mitigating the adverse effects of the proposed lighting such as  
5                   glare and light trespass.

6    **21.07.140    OPERATIONAL STANDARDS**

7    **A.    Purpose**

8           The purpose of these operational standards is to prevent land or buildings within the municipality  
9           from being used or occupied in any manner so as to create any dangerous, injurious, noxious, or  
10           otherwise objectionable condition that would create adverse impacts on the residents,  
11           employees, or visitors on the property itself or on nearby properties.

12   **B.    Applicability**

13           The provisions of this section 21.07.140 shall apply to all land within the municipality. The  
14           director may authorize temporary exemptions from one of more of the standards in this section  
15           during construction.

16   **C.    Standard**

17           No use may cause excessive noise, vibrations, smoke, dust or other particulate matter, toxic or  
18           noxious matter, humidity, heat, or glare at or beyond any lot line of the lot on which it is located.  
19           No equipment or process shall be used which creates visual or audible interference in any radio  
20           or television receivers off the premises, or causes a fluctuation in line voltage off the premises.

21           The term “excessive” is defined for the purpose of this subsection as to a degree exceeding that  
22           generated by uses permitted in the district in their customary manner of operation, or to a degree  
23           injurious to the public health, safety, welfare, or convenience.

24  

---

<sup>1</sup> ~~PRD#2 NOTE: Changes reflect current practice.~~

<sup>2</sup> ~~PRD#2 NOTE: The Public/Institutional and Commercial Design Standards have been revised to clarify and strengthen purpose statements, provide more choices for flexibility, be more specific and less discretionary, and respond to public comments.~~

<sup>3</sup> ~~PRD#2 NOTE: The Large Commercial Establishment design standards have been revised to mirror the requirements of the current code. Some requirements have been amended for clarity, and a three additional choices from a menu are now required.~~