

CITY AND BOROUGH OF SITKA

ORDINANCE NO. 2015-07

AN ORDINANCE OF THE CITY AND BOROUGH OF SITKA AMENDING
SITKA GENERAL CODE TITLE 15 "PUBLIC UTILITIES" BY ADDING A NEW
CHAPTER 15.07 ENTITLED "STORM DRAINAGE"

1. **CLASSIFICATION.** This ordinance is of a permanent nature and is intended to be a part of the Sitka General Code.

2. **SEVERABILITY.** If any provision of this ordinance or any application to any person or circumstance is held invalid, the remainder of this ordinance and application to any person and circumstances shall not be affected.

3. **PURPOSE.** This ordinance is established to promote, protect, and preserve the public interest by regulating the planning, construction, and maintenance of public and private storm drainage systems within the CBS. The specific objectives of this Chapter include but are not limited to:

1. The prevention and abatement of flooding and runoff related property damage, nuisances, or hazards;
2. The prevention of adverse effects of alterations in surface water quantities, locations, and flow patterns;
3. The prevention of actions or practices which would reduce the ability of the public drainage system to convey storm drainage at its intended capacity;
4. The establishment of minimum standards for planning, construction, and maintenance of storm drainage improvements within the CBS; and
5. The establishment of administrative procedures for permits, plan reviews, and construction quality control for grading or drainage improvements significantly affecting the public drainage system.

4. **ENACTMENT.** NOW, THEREFORE, BE IT ENACTED by the Assembly of the City and Borough of Sitka that the Sitka General Code Title 15, Public Utilities, and Sitka General Code Title 21, are hereby amended by adding a new Chapter 15.07, Storm Drainage, and a new paragraph under Chapter 21.40.020, Compliance with standard specifications and subdivision agreements, to read as follows:

41 **Chapter 15.07**
42 **STORM DRAINAGE**

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44 **Sections:**

45	15.07.010	Definitions
46	15.07.020	Purpose
47	15.07.030	Applicability
48	15.07.040	Administration
49	15.07.050	Design and Construction Standards
50	15.07.060	Special Drainage Use Zones

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52 **15.07.010 Definitions.**

53 For purposes of this chapter, the following words and phrases shall have the meanings
54 respectively ascribed to them by this section:

55 "CBS" means City and Borough of Sitka.

56 "Director of Public Works" means either the Director of the City's Department of Public
57 Works or the Director's designee.

58 "Design Storm" means a rainfall event of chosen intensity and duration selected for a
59 storm drainage analysis or system design, and is usually expressed as having a statistical
60 probability of recurrence, such as once in every 5, 10, 50, or 100 years on average. A 100-year
61 storm has a 1% probability of occurring in a given year.

62 "Designated Special Drainage Use Areas" means areas within the City which have been
63 designated as critical to the passage of stormwater runoff from upland origins to salt water
64 discharge.

65 "Development" means, but is not limited to, buildings, bridges, road building, grading,
66 land-filling, excavations, utilities or other capital improvements and other land-use changes that
67 add impervious area.

68 "Drainage Basins" means those lands draining to a common watercourse or outlet
69 including the headwaters of said watercourse.

70 "Drainage System" means the system of facilities for collecting and conveying
71 stormwater runoff, including streams, pipelines, channels, ditches, lakes, wetlands, and other
72 drainage structures and appurtenances, natural and manmade.

73 "Erosion" means the process by which stormwater dislodges and transports soil and other
74 materials.

75 "Excavation" means the physical, man-made removal of earth material.

76 "Flood Plain" means the low-lying area adjacent to a watercourse onto which excessive
77 water flows during periods of prolonged and intensive precipitation. The flood plain for a
78 particular watercourse is a geographical area flooded by a storm of specified recurrence interval.

79 "Grading" means any act which changes the elevation of the ground surface.

80 "Impervious" means impenetrable - completely resisting the entrance of liquids.

81 "Peak Discharge" means the maximum rate of stormwater runoff at a particular point
82 determined for the design storm.

83 "Public Drainage System" means all drainage systems lying within dedicated public
84 easements and rights-of-way or other public lands, and watercourses through private lands which
85 serve as integral parts of drainage systems which convey surface water from streets or public
86 lands, or which provide common drainage from more than one parcel.

87 "Recurrence interval" is the estimated interval of time between storms of a given intensity
88 and duration.

89 "Sediment" means waterborne particles, graded or undefined, occurring by erosive action.

90 "Sedimentation" means the deposition of debris and soil sediment displaced by erosion
91 and transported by runoff.

92 "Storm Sewer" means an underground conduit to convey discharges to an outfall point.

93 "Stream" means a surface water route generally consisting of a channel with bed, banks,
94 or sides, in which surface waters flow in draining from higher to lower land, both perennial and
95 intervening; the channel and intervening artificial components, excluding flows which do not
96 persist more than 24 hours after cessation of rainfall at some time of the year.

97 "Watercourse" means the course or route followed by waters draining from the land,
98 generally formed by nature.

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100 **15.07.020 Purpose.**

101 A. This Chapter is established to promote, protect, and preserve the public interest by
102 regulating the planning, construction, and maintenance of public and private storm drainage
103 systems within the CBS.

104 B. The specific objectives of this Chapter include but are not limited to:

- 105 1. The prevention and abatement of flooding and runoff related property damage, nuisances,
106 or hazards;
- 107 2. The prevention of adverse effects of alterations in surface water quantities, locations, and
108 flow patterns;
- 109 3. The prevention of actions or practices which would reduce the ability of the public
110 drainage system to convey storm drainage at its intended capacity;
- 111 4. The establishment of minimum standards for planning, construction, and maintenance of
112 storm drainage improvements within the CBS; and
- 113 5. The establishment of administrative procedures for permits, plan reviews, and
114 construction quality control for grading or drainage improvements significantly affecting
115 the public drainage system.

116 C. This Chapter is intended to promote the health, safety and welfare of the public and
117 nothing herein is intended to or shall be deemed to create a duty in the CBS to protect or promote
118 the interests of any particular person or class of persons. The existence of these regulations or
119 any failure, refusal or omission of the CBS to enforce any provision herein shall not prevent,
120 supplant or affect the right of any person affected by the clearing, grading, or drainage operations
121 of another to invoke such private remedies as may be available against such other person.

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124 **15.07.030 Applicability.**

125 A. This Chapter shall apply to all property within the CBS, both privately and publicly
126 owned.

127 B. To the extent permitted by law, governmental entities, including municipal corporations
128 and their departments, government owned utilities, school districts, and agencies and
129 departments of State and Federal government, shall be subject to the provisions of this Chapter.

130 C. Other CBS, State and Federal laws and regulations may apply to storm drainage related
131 matters within the CBS. Compliance with the provisions of this Chapter does not guarantee
132 compliance with such other requirements.

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134 **15.07.040 Administration.**

135 The Director of Public Works is charged with the administration and enforcement of this
136 Chapter. The Director is empowered to establish such administrative procedures and guidelines
137 as are required in the execution of this authority.

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139 **15.07.050 Design and Construction Standards.**

140 A. Design and construction standards for storm drainage improvements within the CBS shall
141 be prepared, maintained, and revised from time-to-time by the Director of Public Works and
142 made available in written form to the general public upon request.

143 B. Construction standards for storm drainage improvements are referred to as “City and
144 Borough of Sitka Standard Specifications” and are hereby adopted as official CBS standards for
145 design and construction of culverts, catch basins, drains, ditches, drainage inlets, and other
146 ordinary drainage improvements.

147 C. Design standards for storm drainage improvements are referred to as “City and Borough
148 of Sitka Stormwater Design Standards” and are hereby adopted as official CBS standards for the
149 hydrologic and hydraulic design and sizing of culverts, drains, ditches, drainage inlets, and other
150 ordinary drainage improvements.

151 D. Construction of drainage improvements in public rights-of-way, easements and areas for
152 which drainage permits are required under the Sitka General Code shall be designed and
153 constructed in compliance with standards adopted in this Chapter.

154 E. The Director of Public Works may revise and update the “City and Borough of Sitka
155 Standard Specifications” or the “City and Borough of Sitka Stormwater Design Standards” to
156 reflect changes in technology, new information concerning hydrologic or meteorological
157 assumptions, changes in the type and availability of construction materials, and standards
158 guidance from other governmental entities.

159 F. The Director of Public Works may allow deviations from the “City and Borough of Sitka
160 Standard Specifications” or the “City and Borough of Sitka Stormwater Design Standards” when
161 he/she determines that drainage can be better accommodated by alternate design or construction
162 methods, or when substitutions of alternate construction materials would not result in loss of
163 essential function. A variance may also be granted by the Director of Public Works when he/she
164 finds that:

- 165 1. Downstream facilities have sufficient capacity under design conditions to safely convey
166 the proposed runoff;
- 167 2. The quality of the receiving waters will be maintained;
- 168 3. There is minimal potential for adverse effects from the proposed runoff;
- 169 4. The proposed system can be maintained; and,

170 5. The proposed system does not compromise the structural integrity of abutting roadways,
171 foundations, or structures.

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173 **15.07.060 Special Drainage Use Zones.**

174 A. Areas within the CBS which are critical or may reasonably become critical to the passage
175 of stormwater runoff from upland origins are hereby established as “Designated Special
176 Drainage Use Areas.” Critical areas are those in which existing or potential flooding, drainage,
177 erosion, water quality, and/or instability conditions present a reasonable likelihood of harm to the
178 welfare and safety of surrounding property, or to the integrity of surface water systems and
179 resources.

180 B. Designated Special Drainage Use Areas may be identified and delineated on maps for
181 purposes of this Chapter. The Director of Public Works shall be responsible for preparing,
182 maintaining and updating maps of Designated Special Drainage Use Area boundaries.

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186 **5. EFFECTIVE DATE.** This ordinance shall become effective on the day after the date of its
187 passage.

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189 **PASSED, APPROVED, AND ADOPTED** by the Assembly of the City and Borough of Sitka,
190 Alaska this 24th day of February, 2015.

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194 _____
Mim McConnell, Mayor

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196 ATTEST:

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199 _____
200 Colleen Ingman, MMC
201 Municipal Clerk