

36 WHEREAS, this proposed ordinance is necessary for the preservation and longevity of
37 these lands.

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39 NOW THEREFORE, be it ordained by the City Council of Ivins City, Utah that the attached
40 standards and regulations are adopted, and shall be incorporated into the ordinances of the City,
41 as Title ___, Chapters ___ through ___. This Ordinance shall become effective on the date
42 executed below and upon posting as required by law.

43 APPROVED AND ADOPTED this ___ day of _____, 20__.

44 _____ City

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48 ATTEST:

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51 Approved as to Form:

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53 _____

54 _____ City Attorney

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TITLE ____

CHAPTER 1: GENERAL PROVISIONS

1-1: SHORT TITLE

The short title for this ordinance is the “Landscaping and Water Conservation Ordinance.”

1-2: CONFLICT

Restrictive Covenants in Conflict with Water Efficiency Standards: Any provisions in homeowners or property owners association governing documents, such as bylaws, declarations, operating rules, covenants, conditions, and restrictions that govern the operation of a common interest development, recorded after passage of this ordinance, are void and unenforceable if they conflict with the water efficiency standards in this ordinance, or if they have the effect of prohibiting or restricting compliance with this ordinance.

1-3: APPLICABILITY

The provisions of this title are applicable to all new construction, development and major landscape improvements in the city served by the Water Conservancy District, excepting vested properties which are properties with a previously approved Development Agreement or Conditional Use Permit.

The provisions of this ordinance are severable and if any provision, clause, sentence, word, or part thereof is held illegal, invalid, unconstitutional, or inapplicable to any person or circumstances, such illegality, invalidity, unconstitutionality, or inapplicability shall not affect or impair any of the remaining provisions, clauses, sentences, sections, words or parts thereof of this ordinance or their applicability to other persons or circumstances.

CHAPTER 2: DEFINITIONS

2-1: DEFINITIONS

The following definitions shall apply to this ordinance:

Active Recreation Area: An area with grass that is used for special events or as an outdoor event space. Examples of active recreation areas include sports fields, play areas, event lawns, picnic areas, and other similar uses designated for physical and/or social activity.

Common area: The area which is available for common use by all owners or renters in a development.

96 Controller: A device used in irrigation systems to automatically control when and how long
97 sprinklers or drip irrigation systems operate.

98 Drip Irrigation: An irrigation system that delivers water by adding water at the plant's base
99 and root zone, usually measured in gallons per hour. Drip irrigation exhibits a droplet, trickle,
100 umbrella, or short stream pattern, to reduce evaporation, overspray, and water use, and
101 improving water conservation.

102 Drip Emitter: A drip irrigation fitting that delivers water slowly at the root zone of the plant,
103 usually measured in gallons per hour.

104 Grading Plan: The grading plan shows all finish grades, spot elevations, drainage as
105 necessary, and new and existing contours with the developed landscaped area.

106 Grass: A surface layer of earth containing mowed grass with its roots.

107 Grass area: The total square footage of grass located within the landscape area.

108 Ground Cover: Material planted in such a way as to form a continuous cover over ground that
109 can be maintained at a height no more than twelve (12) inches.

110 Hardscape: Elements of landscape constructed from non-living materials such as concrete,
111 boulders, brick, blacktop, and lumber. It includes patios, decks, and paths, but does not
112 include driveways and sidewalks.

113 Hydrozone: Portion of landscape area having plants with similar water needs and rooting
114 depth. A hydrozone may be irrigated or non-irrigated.

115 Irrigation Plan: A plan that shows the components of the irrigation system with water meter
116 size, backflow prevention, precipitation rates, flow rate, and operating pressure for each
117 irrigation circuit, and identification of all irrigation equipment.

118 Landscape Architect: A person who holds a professional license to practice landscape
119 architecture in the state of Utah. Per State Code, licensed landscape architects, licensed
120 architects, licensed land surveyors, and licensed engineers can professionally stamp plans
121 that fall under the practice of landscape architecture. This includes commercial landscape and
122 irrigation plans.

123 Landscape Area: For developments regulated by Chapters 3 (single-family and twin home) or
124 Chapter 4 (non-residential): Area within a lot or parcel that is not the home footprint,
125 driveway, sidewalk, patio, swimming pool or water feature. For developments regulated by
126 Chapter 5 (multifamily) or Chapter 7 (resorts): Area within the development that is not a
127 building footprint, driveway, parking lot, sidewalk, patio, sports court, swimming pool, water
128 feature, and other hard surfaces.

129 Landscape Designer: A person who may or may not hold professional certificates for
130 landscape design/architecture and may be the owner of the property or in the landscaping
131 business.

132 Landscape Documentation Package: The documentation of graphic and written criteria,
133 specifications, and detailed plans to arrange and modify the effects of natural features to
134 comply with the provisions of this ordinance. The Landscape Documentation Package shall
135 include a project data sheet, a site plan, a planting plan, an irrigation plan, construction
136 details, and a grading plan.

137 Landscape or Landscaping: Any combination of berms; living plants, such as trees, shrubs,
138 vines, ground covers, annuals, perennials, grass, or seeding; natural features such as rock,
139 stone, or bark chips; and structural features, including but not limited to outdoor artwork,
140 screen walls, fences or benches that create an attractive and pleasing environment.

141 Mulch: Any organic material such as leaves, bark, wood chips, straw; inorganic material such
142 as crushed stone or gravel; other materials left loose and applied to the soil surface for the
143 beneficial purpose of controlling weeds and conserving soil moisture.

144 Multifamily: Any residential use comprised of a dwelling or dwellings designed for
145 occupation by more than one family in any zone, but for purposes of this ordinance,
146 excludes: Single-family dwellings and twin homes (two family dwellings), dwellings
147 containing an approved internal accessory dwelling unit, dwellings which are an approved
148 accessory dwelling unit to a primary dwelling, resorts, and hotel rooms.

149 Park Strip: A typically narrow landscaped area located between the back-of-curb and
150 sidewalk.

151 Plant List: A list of locally adaptable and environmentally sustainable plants for compliant
152 Planting Plans as provided by the Washington County Water Conservancy District.

153 Planting Plan: A Planting Plan that clearly and accurately identifies the type, size, and
154 locations for new and existing trees, shrubs, planting beds, ground covers, grass areas,
155 driveways, sidewalks, hardscape features, and fences.

156 Precipitation Rate: The depth of water applied to a given area, usually measured in inches per
157 hour.

158 Pressure Regulating Valve: A valve installed in an irrigation mainline that reduces a higher
159 supply pressure at the inlet down to a regulated lower pressure at the outlet.

160 Resort: A full-service lodging and recreational facility located in a Resort Commercial zone
161 that is the primary provider of a range of amenities, recreation, or wellness facilities to
162 emphasize a leisure or wellness experience beyond those found at motels and hotels.
163 Separately platted residences or commercial facilities will be deemed part of the Qualified
164 Resort so long as they are intended to be rented or otherwise used as a part of the hotel
165 operations.

166 Secondary Irrigation Water: Non-potable water that is untreated and used for irrigation of
167 outdoor landscaping Also called secondary water.

168 Single-family: Any residential use comprised of a dwelling designed for occupation by only
169 one family in any zone, and for purposes of this ordinance includes primary dwellings,
170 dwellings containing an approved internal accessory dwelling unit, and approved accessory
171 dwelling units.

172 Slope: A vertical rise in feet measured over a horizontal distance, expressed as a percentage,
173 measured generally at right angles to contour lines.

174 Smart irrigation controller: A smart/internet-connected device used in irrigation systems to
175 automatically control when and how long sprinklers or drip irrigation systems operate.

176 Two-Family: Any residential use comprised of a dwelling (twin home or duplex) designed
177 for occupation by two families in any zone, but for purposes of this ordinance excludes
178 dwellings containing an approved internal accessory dwelling unit, or dwellings which are an
179 approved accessory dwelling unit to a primary dwelling.

180 Vested properties: Properties with a previously approved Development Agreement or
181 Conditional Use Permit.

182 Water-Conserving Plant: A plant that can generally survive with available rainfall once
183 established, with possible supplemental irrigation needed or desirable during spring and
184 summer months or during drought periods.

185 Water feature: Fountains, ponds, waterfalls, man-made streams, and other decorative water-
186 related constructions provided solely for aesthetic or beautification purposes. May be referred
187 to as decorative or ornamental water features.

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190 **CHAPTER 3: SINGLE-FAMILY AND TWO-FAMILY RESIDENTIAL WATER**
191 **EFFICIENCY STANDARDS**

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193 These provisions are applicable to all new single-family and two-family (twin home/duplex)
194 residential construction and development irrespective of its underlying zoning classification, except
195 new single-family and two-family (twin home/duplex) residential construction and development
196 within a resort which is subject to the requirements of Chapter 7.

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198 **3-1: Construction Standards**

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200 A. New single-family and two-family (twin home/duplex) residential dwellings 1,200 square
201 feet or greater shall install hot water recirculation systems.

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- B. New single-family and two-family (twin home/duplex) residential dwellings shall install WaterSense labeled fixtures, or fixtures that are at least as water-efficient, including, but not limited to faucets, showerheads, toilets, and urinals.
- C. New single-family and two-family (twin home/duplex) residential dwellings shall install Energy Star qualified appliances, or appliances that are at least as energy efficient.
- D. Exterior, decorative water features must be limited to an aggregate capacity of three hundred (300) gallons or less and recirculating pumps are required in each feature. Exterior decorative water features shall only be located on individual single-family and two-family lots and not as entry features to a subdivision or community or in common areas. The capacity of the water feature in gallons shall be deducted from the allowed amount of grass using one gallon equals two square feet of grass.
- E. The square footage of any uncovered pool will be deducted from the allowed amount of grass. A pool is considered uncovered if it does not have a UL approved cover that is electrically operated. Twenty-five percent (25%) of the square footage of any pool with a UL approved electrically operated cover, or indoor pools, will be deducted from the allowed amount of grass.

3-2: Landscape Standards

- A. For all new single-family and two-family (twin home/duplex) residential construction or development, the landscaping shall meet the following requirements:
 - 1. Grass area must not exceed eight percent (8%) of the lot square footage, up to a maximum of 2,000 square feet of grass area.
 - 2. Grass is not permitted in common areas of a development unless it is an active recreation area.
 - 3. In addition, grass is prohibited in park strips, landscape buffers, and on any slope that exceeds 10%; and
 - 4. Any lot in any zone which is larger than one-half (1/2) acre must use secondary irrigation where available to irrigate any agricultural, horticultural, or gardening uses which are permitted in the applicable zone.

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CHAPTER 4: MULTIFAMILY DEVELOPMENT WATER EFFICIENCY STANDARDS

These provisions are applicable to all new multifamily construction and development irrespective of its underlying zoning classification, except new construction and development within a resort which will be subject to the requirements of Chapter 7.

4-1: Construction Standards

- A. New multifamily dwellings shall install WaterSense labeled fixtures, or fixtures that are at least as water-efficient, including, but not limited to faucets, showerheads, toilets, and urinals.
- B. New multifamily dwellings shall install Energy Star qualified appliances, or appliances that are at least as energy efficient.
- C. Exterior, decorative water features must be limited to an aggregate capacity of three hundred (300) gallons or less and recirculating pumps are required in each feature. Exterior decorative water features shall not be located as entry features to the development or in common areas. The capacity of the water feature in gallons shall be deducted from the allowed amount of grass using one gallon equals two square feet of grass.
- D. The square footage of any uncovered pool will be deducted from the allowed amount of grass. A pool is considered uncovered if it does not have a UL approved cover that is electrically operated.” Twenty-five percent (25%) of the square footage of any pool with a UL approved electrically operated cover, or indoor pools, shall be deducted from the allowed amount of grass.
- E. All townhome and condominium units shall be separately metered, submetered, or equipped with alternative technology capable of tracking the water use of the individual unit, and the information shall be made available to the individual unit.
- F. Separate water meters are required, where secondary water is available, for all outdoor water usage, including landscaping.

4-2: Landscape Standards

For all new multifamily construction or development, the landscaping shall meet the following requirements:

- A. Grass area must not exceed five percent (5%) of the total development’s square footage.
- B. Grass is not permitted in common areas of a development unless it is an active recreation area.

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291 C. In addition, grass is prohibited in park strips, landscape buffers, and on any slope that
292 exceeds 10%; and
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294 D. Landscape and irrigation installers shall follow the planting plans that have been signed and
295 approved by the city.
296
297 E. Each project shall propose and follow an approved Planting Plan that has a minimum of 20%
298 vegetative cover (based on the American Society of Landscape Architects “Landscape
299 Architecture Documentation Standards: Principles, Guidelines and Best Practices”) of a
300 landscaped area with water-efficient shade trees and bushes adequate in number and
301 configuration to visually enhance the project, prevent heat islands, and prevent soil erosion.
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303 F. If secondary irrigation water is available, each project shall connect to the system for all
304 outdoor water use. A city may make minor exceptions, allowing use of treated water for
305 outdoor plantings in small beautification areas, in its sole discretion.
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310 **CHAPTER 5: NONRESIDENTIAL ZONES AND DEVELOPMENT WATER** 311 **EFFICIENCY STANDARDS**

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313 These provisions are applicable to all new construction and new development in all nonresidential
314 zones, and nonresidential development in any zone, except development within a resort which is
315 subject to the requirements of Chapter 7.
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317 **5-1: Construction Standards**

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319 A. Hot water recirculation systems shall be installed.
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321 B. WaterSense labeled fixtures, or fixtures that are at least as water-efficient, shall be
322 installed, including, but not limited to faucets, showerheads toilets, and urinals.
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324 C. Energy Star qualified appliances, or appliances that are at least as energy-efficient, shall
325 be installed.
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327 D. Except for hotels, all individually platted units shall be separately metered, submetered,
328 or equipped with alternative technology capable of tracking the water use of the
329 individual unit, and the information shall be made available to the individual unit. All
330 nonresidential projects require separate water meters for all outdoor water usage,
331 including landscaping, where and when secondary water is available.
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333 E. All carwash projects shall recirculate and limit the maximum amount of water to thirty-
334 five (35) gallons per vehicle washed.
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336 F. Exterior, decorative water features must be limited to an aggregate capacity of three
337 hundred (300) gallons or less for each individually platted property, and recirculating
338 pumps are required in each feature. Exterior decorative water features shall not be located
339 as entry features to a development. The capacity of the water feature in gallons shall be
340 deducted from the allowed amount of grass using one gallon equals two square feet of
341 grass.
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343 **5-2: Landscape Standards**

344
345 A. All new construction and new development in all nonresidential zones, and nonresidential
346 development in any zone, shall meet the Landscape Design Standards and Irrigation
347 Design Standards of this ordinance.
348

349 1. Grass is not permitted outside of an active recreation area. In addition, grass is
350 prohibited in park strips, all landscape areas less than eight feet wide, and on any
351 slope that exceeds 10%.
352

353 2. Landscape and irrigation installers shall follow the plans that have been signed and
354 approved by the city.
355

356 3. Each project shall propose and follow an approved Planting Plan that has a minimum
357 of 20% vegetative cover (based on the American Society of Landscape Architects
358 “Landscape Architecture Documentation Standards: Principles, Guidelines and Best
359 Practices”) of a landscaped area with water-efficient shade trees and bushes adequate
360 in number and configuration to visually enhance the project, prevent heat islands, and
361 prevent soil erosion.
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363 4. If secondary irrigation water is available, each project shall connect to the system for
364 all outdoor water use. A city may make minor exceptions, allowing use of treated
365 water for outdoor plantings in small beautification areas, in its sole discretion.
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367 B. Required Documentation

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369 1. Landscape Documentation Package: A copy of a Landscape Documentation Package
370 shall be submitted to and approved by the city prior to the issue of any building
371 permit. A copy of the approved Landscape Documentation Package shall be provided
372 to the property owner or site manager. The Landscape Documentation Package shall
373 be prepared by a landscape designer or a professional landscape architect (PLA).
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376 **CHAPTER 6: LANDSCAPE AND IRRIGATION DESIGN STANDARDS FOR ALL**
377 **NEW DEVELOPMENT IN ANY ZONE** except new construction and development within a
378 resort which will be subject to the requirements of Chapter 7.

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380 **6-1: Plant Selection and Maintenance**

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382 Plants shall be well-suited to the microclimate and soil conditions at the project site. Native, locally
383 adaptable, and environmentally sustainable plants are acceptable. See the Washington County Water
384 Conservancy District's recommended plant list on wcwcd.org. Plants with similar water needs shall
385 be grouped together as much as possible into hydrozones for efficient irrigation. Invasive plant
386 species as identified by the city shall not be planted.

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388 A. Areas with slopes greater than 10% shall be landscaped with deep-rooting, water-conserving
389 plants that do not include grass.

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391 B. Park strips and landscape buffers shall be landscaped with water-conserving plants and/or
392 mulch that do not include grass.

393

394 C. Landscaping shall be maintained in a live and thriving condition, with consideration for
395 normal growth and water needs; and fertilized, mowed, trimmed, edged, mulched and free
396 from weeds, dead plants, litter, refuse, or debris in compliance with regionally accepted
397 horticultural practice and city ordinances.

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399 **6-2: Tree Selection**

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401 Tree species shall be selected based on growth characteristics and site conditions, including available
402 space, overhead clearance, soil conditions, exposure, and desired color and appearance. Trees shall
403 be suited for water-efficient landscapes; however, fruit and nut trees are allowed. Trees shall be
404 selected and planted in accordance with the following city guidance:

405

406 A. Broad canopy trees are recommended where shade or screening of tall objects is desired;

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408 B. Low-growing trees are recommended for spaces under utility wires;

409

410 C. Select trees from which lower branches will be trimmed to maintain a healthy growth habit
411 where visual clearance and natural surveillance is a concern;

412

413 D. Narrow or columnar trees are recommended for small spaces, or where awnings or other
414 building features limit growth, or where greater visibility is desired between buildings and
415 the street for natural surveillance;

416

417 E. Tree placement shall provide canopy cover (shade) and avoid conflicts with existing trees,
418 retaining walls, above and below ground utilities, lighting, and other obstructions;

419

420 **6-3: Irrigation Design Standards**

- 421 A. Pressure Regulation. A pressure regulating valve shall be installed by the builder or
422 developer, and maintained by the owner, if the static service pressure exceeds ninety (90)
423 pounds per square inch (psi). The pressure-regulating valve shall be located between the
424 meter and the first point of water use, or first point of division in the pipe, and shall be set at
425 the manufacturer’s recommended pressure for the sprinklers.
426
- 427 B. Irrigation Controller. It is required that landscaped areas use a WaterSense labeled smart
428 irrigation controller, or controllers that are at least as water-efficient, which automatically
429 adjusts the frequency and/or duration of irrigation events in response to changing weather
430 conditions. All controllers shall be equipped with automatic rain delay or rain shut-off
431 capabilities and have memory retention capability to retain pre-programmed irrigation
432 schedules. Sites are not exempt from water waste prohibitions.
433
- 434 C. Low-volume irrigation equipment (i.e., drip emitters, bubblers) shall be provided for each
435 tree.
436
- 437 D. Drip irrigation shall be used to irrigate plants in non-grass areas.
438
- 439 E. High conservation efficiency spray nozzles are required for sprinkler applications.
440
- 441 F. Sprinkler heads shall have matched precipitation rates with each control valve circuit.
442
- 443 G. Filters shall be provided for drip irrigation lines.
444
- 445 H. Landscape watering with potable (treated) water is prohibited based on Ivins City
446 requirements, which are currently from 8 a.m. to 8 p.m., from June 1 to September 1, to
447 maximize irrigation efficiency.
448
- 449 I. Water waste is prohibited. Waste includes overwatering, irrigating during a precipitation
450 event, water that sprays or flows off your property, failure to comply with drought
451 restrictions and/or a failure to repair irrigation system leaks and/or malfunctions in a timely
452 manner.
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- 454 J. Program valves for multiple repeat cycles are required to reduce runoff on slopes and for
455 soils with slow infiltration rates.
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459 **CHAPTER 7: RESORT DEVELOPMENT WATER EFFICIENCY STANDARDS**
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461 The provisions of this Chapter are applicable to all new construction, and new development within
462 any resort.
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464 Specific provisions of this Chapter can be waived by the City if a hydrologist, water use engineer,
465 landscape architect that is licensed in the State of Utah, or similarly qualified expert approved by the

466 City provides a statement and supporting documentation showing that the design meets or exceeds all
467 the water conservation measures and goals in this ordinance.

468

469 **7-1: Construction Standards**

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471 A. Within the resort development, new single-family, two-family (twin home/duplex), and
472 three-family (triplex) residential dwellings 1,200 square feet or greater shall install hot
473 water recirculation systems.

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475 B. All water fixtures shall be WaterSense labeled fixtures, or fixtures that are at least as
476 water-efficient, including, but not limited to faucets, showerheads, toilets, and urinals.

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478 C. All appliances shall be Energy Star qualified appliances, or appliances that are at least as
479 energy-efficient.

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481 D. Exterior, decorative water features must have recirculating pumps. This excludes any
482 area of a golf course and water features within a golf course. Exterior decorative water
483 features shall not be used as entry features to the resort development. The allowed
484 amount of grass will be reduced based on the capacity of the water feature in gallons
485 using one gallon equals two square foot of grass.

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487 E. The square footage of any uncovered pool will be counted towards the allowed amount of
488 grass. A pool is considered uncovered if it does not have a UL approved cover that is
489 electrically operated.” Twenty-five percent (25%) of the square footage of any pool with
490 a UL approved electrically operated cover, or indoor pools, will be counted towards the
491 allowed amount of grass.

492

493 F. Except for hotel rooms, all residential and nonresidential units shall be separately
494 metered, submetered, or equipped with alternative technology capable of tracking the
495 water use of the individual unit, and the information shall be made available to the
496 individual unit. All nonresidential projects require separate water meters for all outdoor
497 water usage, including landscaping.

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499 **7-2: Landscape Standards**

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501 A. Grass area must not exceed eight percent (8%) of the square footage of the total resort
502 development. This excludes the grass area of any golf course.

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504 B. Grass is not permitted outside of an active recreation area. Grass is prohibited in park
505 strips, landscape buffers, and on any slope that exceeds 10%; and

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507 C. Any lot in any zone which is larger than one-half (1/2) acre must use secondary irrigation
508 where available to irrigate any agricultural, horticultural, or gardening uses which are
509 permitted in the applicable zone.

- 510
- 511 D. Landscape and irrigation installers shall follow the plans that have been signed and
- 512 approved by the city.
- 513
- 514 E. Each project shall propose and follow an approved Planting Plan that has a minimum of
- 515 20% vegetative cover (cover based on landscaping standards at maturity) of a landscaped
- 516 area with water-efficient shade trees and bushes adequate in number and configuration to
- 517 visually enhance the project, prevent heat islands, and prevent soil erosion.
- 518
- 519 F. If secondary irrigation water is available, each project shall connect to the system for all
- 520 outdoor water use. A city may make minor exceptions, allowing use of treated water for
- 521 outdoor plantings in small beautification areas, in its sole discretion.
- 522

523 **7-3: Required Documentation**

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525 Landscape Documentation Package: A copy of a Landscape Documentation Package shall be

526 submitted to and approved by the city prior to the issue of any building permit. A copy of the

527 approved Landscape Documentation Package shall be provided to the property owner or site

528 manager. The Landscape Documentation Package shall be prepared by a professional landscape

529 architect (PLA) and installed and maintained according to industry standards.

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531 **7-4: Plant Selection**

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533 Plants shall be well-suited to the microclimate and soil conditions at the project site. Native, locally

534 adaptable and environmentally sustainable plants are acceptable. See the Washington County Water

535 Conservancy District's recommended plant list on wcwcd.org. Plants with similar water needs shall

536 be grouped together as much as possible into hydrozones for efficient irrigation. Invasive plant

537 species as identified by the city shall not be planted.

538

- 539 A. Areas with slopes greater than 10% shall be landscaped with deep-rooting, water-conserving
- 540 plants that do not include grass.
- 541
- 542 B. Park strips and landscape buffers shall be landscaped with water-conserving plants and/or
- 543 mulch that do not include grass.
- 544

545 **7-5: Tree Selection**

546

547 Tree species shall be selected based on growth characteristics and site conditions, including available

548 space, overhead clearance, soil conditions, exposure, and desired color and appearance. Trees shall

549 be suited for water-efficient landscapes. Trees shall be selected and planted in accordance with the

550 following city guidance:

- 551 A. Broad canopy trees are recommended where shade or screening of tall objects is desired;
- 552
- 553 B. Low-growing trees are recommended for spaces under utility wires;

- 554
555 C. Select trees from which lower branches will be trimmed to maintain a healthy growth habit
556 where visual clearance and natural surveillance is a concern;
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558 D. Narrow or columnar trees are recommended for small spaces, or where awnings or other
559 building features limit growth, or where greater visibility is desired between buildings and
560 the street for natural surveillance;
561
562 E. Tree placement shall provide canopy cover (shade) and avoid conflicts with existing trees,
563 retaining walls, above and below ground utilities, lighting, and other obstructions, and be
564 placed to protect view corridors and viewsheds; and
565

566 Trees shall be irrigated on a separate hydrozone as needed for efficient irrigation and allow for
567 watering under water-shortage conditions when other plant material may not be watered due to
568 drought conditions.

569 **7-6: Irrigation Design Standards**

- 570 A. Pressure Regulation. A pressure regulating valve shall be installed by the builder or
571 developer, and maintained by the owner, if the static service pressure exceeds 90 pounds per
572 square inch (psi). The pressure-regulating valve shall be located between the meter and the
573 first point of water use, or first point of division in the pipe, and shall be set at the
574 manufacturer's recommended pressure for the sprinklers.
575
576 B. Irrigation Controller. It is required that landscaped areas use a WaterSense labeled smart
577 irrigation controllers or controllers that are at least as water-efficient, which automatically
578 adjusts the frequency and/or duration of irrigation events in response to changing weather
579 conditions. All controllers shall be equipped with automatic rain delay or rain shut-off
580 capabilities and have memory retention capability to retain pre-programmed irrigation
581 schedules. Sites are not exempt from water waste prohibitions.
582
583 C. Low-volume irrigation equipment (i.e., drip emitters, bubblers) shall be provided for each
584 tree.
585
586 D. Drip irrigation shall be used to irrigate plants in non-grass areas.
587
588 E. High conservation efficiency spray nozzles are required for sprinkler applications.
589
590 F. Sprinkler heads shall have matched precipitation rates with each control valve circuit.
591
592 G. Filters shall be provided for drip irrigation lines.
593
594 H. Landscape watering with potable (treated) water is prohibited based on Ivins city
595 requirements, which are currently from 8 a.m. to 8 p.m., from June 1 to September 1, to
596 maximize irrigation efficiency.
597
598 I. Water waste is prohibited. Waste includes overwatering, irrigating during a precipitation
599 event, water that sprays or flows off your property, failure to comply with drought

600 restrictions and/or a failure to repair irrigation system leaks and/or malfunctions in a timely
601 manner.
602
603 J. Program valves for multiple repeat cycles are required to reduce runoff on slopes and for
604 soils with slow infiltration rates.

DRAFT