

1 RESOLUTION NO. 03-26

2 (CODIFIED)

3 RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CHICO AMENDING TITLE 18R
4 DESIGN CRITERIA AND IMPROVEMENT STANDARDS OF THE CHICO MUNICIPAL CODE

5
6 NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Chico does
7 hereby adopt the following Resolution amending chapters 18R.08, and 18R.12 as
8 follows:

9 **Section 1.** That Section 18R.08.020, entitled "Public streets.", is amended as follows:

10 **18R.08.020 Public streets.**

11 **A. Public Streets Generally.**

12 **1.** The subdivider shall provide traffic impact studies for developments generating
13 100 or more net new peak hour trips or as required by the Director. Traffic impact
14 studies shall include a comprehensive trafficway system, designed and constructed in
15 accordance with these criteria, applicable standards and ordinances, and the city of
16 Chico general plan. Design of streets shall provide for safe vehicular operation at a
17 specified design speed.

18 **2.** Public streets shall be required when the street is shown as an arterial or collector
19 street on a master street and highway plan, the general plan, or any other specific or
20 precise plan; or when the street will be used by the general public as a through access
21 route; or when a public street is necessary for special needs including, but not limited
22 to, bus routes, public service access, bike routes and pedestrian access.

23 **B. Street Layout.**

24 **1.** Existing Streets and Unsubdivided Land. Streets shall be laid out to complement
25 the alignment of existing streets in adjoining subdivisions and to provide a logical
26 continuation of existing streets where the adjoining land is not subdivided.

27 The advisory agency may require the realignment of streets in contemplation of
28 the development or use of adjoining property and may require the provision of streets

1 or dead-end street extensions to facilitate the subdivision of adjoining property.

2 Permanently dead-ended streets without cul-de-sacs shall not be approved. When
3 a temporarily dead-ended street is extended to the boundary of the subdivision, a one-
4 foot fee simple strip the width of the street right-of-way shall be dedicated to the city
5 at the end of the street. A barricade, or temporary turning area, or temporary
6 connection to another street shall be required for any such street.

7 **2. Provision for Resubdivision.** Where property is subdivided into lots substantially
8 larger than the minimum size required by the zoning districts in which the subdivision
9 is located, the advisory agency may require that streets and lots be laid out so as to
10 permit future resubdivision in accordance with the provisions of these regulations.

11 **3. Future Streets.** Where determined necessary for the protection of the public
12 welfare or substantial property rights, the advisory agency may require or approve
13 the reservation of streets within a proposed subdivision for future public use;
14 provided, that all land so reserved shall be dedicated in fee simple to the city.

15 **4. Streets Parallel to Rights-of-Way.** Where a subdivision borders on or contains a
16 railroad right-of-way, canal, or limited access highway right-of-way, the advisory
17 agency may require a street approximately parallel to such right-of-way at a distance
18 suitable for the appropriate use of the intervening land. Such distance shall be
19 determined with due regard for the requirements of approach grades and future grade
20 separations.

21 **5. Local Streets.** Local streets shall be designed so that their use by through traffic
22 will be discouraged. Excessively long, straight residential streets, conducive to high-
23 speed traffic, shall not be approved.

24 **C. Street Names.** Proposed street names shall not be similar to present street names,
25 except that streets that are a prolongation or approximate prolongation of existing
26 streets shall be given the same names as the existing streets. No street shall be
27 designated by the same name as any other street even though differentiated by a suffix
28 (avenue, boulevard, way, place or other term), except that a frontage road shall be

1 given the same name as the street on which it borders. Generally no street should
2 change direction by more than 90 degrees without a change in street name. All
3 proposed street names must be approved by the city fire chief.

4 **D. Horizontal Alignment.**

5 **1. Specific Requirements.** The criteria for the following design elements for each
6 functional street classification shall be as set forth in Table 1:

7 **a.** Minimum design speed;

8 **b.** Minimum curve radius at centerline;

9 **c.** Minimum length of tangent between reversing curves; reversing curves without
10 an intervening tangent shall not be permitted;

11 **d.** Minimum stopping sight distance shall be based on the HDM.

12 **2. Superelevation.** Superelevations other than those set forth in the standard plans
13 will be acceptable only in extraordinary circumstances and will be designed on an
14 individual basis.

15 **E. Profile.**

16 **1. Profile Generally.** The grade line should coincide with the centerline of the street.
17 To improve appearances and to reduce the number of sight distance restrictions,
18 vertical curves should, when possible, be superimposed on horizontal curves. For
19 safety reasons, the horizontal curve should lead the vertical curve. Sharp horizontal
20 curves shall not be introduced at or near a pronounced grade sag or summit.

21 **2. Minimum Grade.** Minimum grades for all streets with paved gutters shall be 0.25%.
22 Streets with unpaved gutters shall have a minimum grade along centerline of 0.50%.

23 **3. Maximum Grades.** Maximum grades shall be 6% for arterial and collector streets
24 and 8% for local streets or as approved by the Director of Public Works - Engineering.
25 A maximum grade of 4% is desirable whenever possible, especially at intersections.

26 **4. Vertical Curves.** Parabolic vertical curves shall be used when the algebraic
27 difference in grade is greater than 1.0%. The criteria for the following design elements
28 for each functional street classification and its corresponding minimum design speed

1 5. shall be as set forth in Table 2:

2 a. Minimum length of vertical curve;

3 b. Minimum stopping sight distance;

4 c. Minimum passing sight distance;

5 d. Maximum rate of change of grade in percent per 100 feet at the minimum stopping
6 sight distance. This criteria may dictate a vertical curve longer than the minimum
7 stated in this section.

8 **F. Cross Section.**

9 **1. Geometric Cross Section.** Standard widths for street geometric cross sections shall
10 be as set forth in the improvement standards or as approved by the Director of Public
11 Works - Engineering.

12 Subdividers of subdivisions with five (5) or more lots shall be required to install
13 full improvements on existing streets adjacent to the subdivision in accordance with
14 the limits of construction required by the improvement standards. In the event that
15 the subdivision will generate sufficient vehicular traffic to require additional traffic
16 lanes or street extensions, the subdivider may be required to provide and improve
17 these facilities.

18 Subdividers of subdivisions having fewer than five (5) lots shall be required to
19 install full improvements on existing streets adjacent to the subdivisions from the
20 subdivision property line to the existing edge of street pavement, or beyond as may be
21 needed to maintain a maximum five percent (5%) shoulder cross slope, in accordance
22 with the improvement standards.

23 **2. Structural Section.** The structural section shall be determined from the R-value
24 from the project soils report and the Traffic Index (TI) provided by the City. The
25 determination of the structural section shall follow the procedures outlined in the
26 Highway Design Manual (HDM) for flexible pavement design. Regardless of the TI and
27 R value, the minimum roadway section is 3" HMA on 6" Class II AB.

28 **3. Curb and Gutter.** Curb and gutter shall be installed adjacent to streets in all

1 subdivisions and shall be constructed in accordance with the improvement
2 standards.

3 **4. Sidewalks.** Sidewalks shall be installed within all streets in all subdivisions and
4 shall be constructed in accordance with the improvement standards. Sidewalks shall
5 be separated from the adjacent curb and gutter by a parkway unless a contiguous
6 sidewalk is specifically approved to save trees or to conform to an existing contiguous
7 sidewalk configuration or as approved by the Director of Public Works – Engineering.
8 All sidewalks shall be installed within the public right-of-way.

9 The advisory agency may require the installation of sidewalks outside of the
10 subdivision to maintain continuity of pedestrian access from the subdivision to other
11 areas in the immediate vicinity.

12 **5. Half-streets.** Half-streets shall not be approved.

13 **G. Intersections.**

14 **1. Intersections Generally.** The criteria for intersections set forth in this subsection
15 shall be minimum requirements. Based upon traffic analysis, the director may require
16 additional features such as speed change lanes, tapers, separate turning lanes, refuse
17 areas and traffic-control devices. Intersections with more than four approaches shall
18 not be approved.

19 **2. Intersection Spacing.** Intersection spacing shall be determined in accordance with
20 these criteria and those set forth in subsection B above, entitled “Street Layout.”

21 **a.** Maximum spacing between intersections shall be 1320 feet.

22 **b.** Minimum spacing of intersections shall be as follows:

23 **c.** Local streets, 250 feet;

24 **d.** Collector streets, 300 feet;

25 **e.** Arterial streets, 500 feet.

26 **3. Geometrics.**

27 **a. Alignment.** A secondary street shall intersect a primary street at right angles
28 (radial when the primary street is curved). The secondary street alignment shall be

1 perpendicular to the primary street from the centerline of the primary street to the
2 end of the curb return on the secondary street.

3 **b. Cross-Slope in Intersections.** The criteria for treatment of cross-slope in
4 intersection areas shall be as set forth in Figure 2.

5 **c. Curb Returns.** The standard curb return radius shall be 30 feet, measured to the
6 face of curb.

7 **d. Curb Ramp.** The standard curb ramp shown in the improvement standards shall
8 be installed at all curb returns.

9 **H. Cul-de-Sacs.** Cul-de-sac streets shall not exceed 500 feet in length.

10 **1.** The advisory agency may require reduced length, or may require the elimination
11 of a proposed cul-de-sac in order to provide for the efficient circulation of traffic, the
12 future development of the neighborhood street system, or the deployment of
13 emergency services.

14 **2.** Cul-de-sacs shall be constructed in conformance with the improvement standards.

15 **I. Access.**

16 **1. General.** Street access control may be required by permitting ingress and egress
17 only at specific locations determined by the advisory agency.

18 Access to arterial streets shall, in general, be permitted at intersections only. The
19 advisory agency may require installation of backup (reverse frontage) lots, or side-on
20 lots adjacent to arterial streets. Access to other than arterial streets shall, in general,
21 be limited to one opening per lot. Access to the subdivision from adjacent streets shall
22 be designed to utilize the most efficient circulation pattern within the subdivision.

23 **2. Driveways.** Driveways shall be constructed in accordance with the improvement
24 standards.

25 **J. Traffic Control and Safety Devices and Street Name Signs.** Traffic control and safety
26 devices shall be installed on all streets as required by the improvement standards and
27 the public works director in order to promote traffic control and safety. Traffic control
28 and safety devices shall include but not be limited to regulatory signs, warning signs,

1 guide markers, construction signs, pavement markings, lane delineations and traffic
2 signals. Street name signs shall be installed at all public, private and public/private
3 intersections in accordance with the improvement standards.

4 **K. StreetLights.** City-owned streetlights shall be installed on all public streets in
5 accordance with the improvement standards. Streetlight spacing shall be as required
6 by the public works director.

7 **L. House Numbers.** House and unit numbers shall be assigned by the building official
8 and shall be placed and maintained in a manner which is clearly visible from the street.

9 **M. Depth of Non-Gravity Utilities.** All non-gravity utilities shall be installed with a
10 minimum depth of 3 feet from surface grade to top of pipe.

11 **Section 2.** That Section 18R.08.035, entitled "Private streets.", is amended as follows:

12 **18R.08.035 Private Streets.**

13 **A. Private Streets Generally.** Private streets may be permitted subject to compliance
14 with the following design criteria and improvement standards of this chapter, Title 18
15 of this code, and Standard Plan No. S-18F.

16 **B. Private Street Length.**

17 **1. Cul-de-sacs.** Private street cul-de-sacs shall not exceed 500 feet in length.

18 **2. Loop Streets.** Private loop streets improved to the standards set forth in this
19 section shall not exceed 1,000 feet in length.

20 **3. Standards for private streets exceeding 1,000 feet in length shall be determined on**
21 **a case-by-case basis.**

22 **C. Horizontal Alignment.** Private streets shall conform to the following minimum
23 standards:

24 **1. Minimum curve radius at centerline shall be 50 feet.**

25 **2. Minimum cul-de-sac or turnaround radius to face of curb shall be 46 feet.**

26 **D. Profile.** The maximum grade for a private street shall not exceed 8%. The minimum
27 grade shall correspond to the standards for a public street.

28 **E. Cross Section.**

1 **1. Geometric cross section.**

2 **a.** Private streets servicing less than 26 lots shall have a minimum street width of 24
3 feet without on-street parking and 36 feet with on-street parking.

4 **b.** Private streets serving 26 lots or more shall have a minimum street width of 30 feet
5 without on-street parking and 40 feet with on-street parking.

6 **c.** Private streets may be either crowned streets or valley gutter streets. Valley gutters
7 shall not be used on streets serving 26 lots or more.

8 **2. Curb and Gutter.**

9 **a.** Crowned Streets. Curb and gutter shall be constructed in accordance with city of
10 Chico public street improvement standards.

11 **b.** Valley Gutter Streets. Curb and gutter may be constructed in accordance with the
12 public street improvement standards, or curbing with a minimum width of 6 inches
13 above the surfaced section of the private street at the curb line may be constructed. A
14 4-foot wide longitudinal P.C.C. valley gutter shall be constructed along the street
15 centerline when the slope is less than 1%.

16 **3. Structural Section.** The structural section shall be determined from the R-value
17 from the soils report and the Traffic Index (TI) provided by the City. The
18 determination of the structural section shall follow the procedures outlined in the
19 Highway Design Manual (HDM) for flexible pavement design. Regardless of the TI and
20 R value, the minimum roadway section is 3" HMA on 6" Class II AB.

21 **F. Intersection with Public Street.**

22 **1.** A private street shall intersect a public street at right angles.

23 **2.** Private streets shall have standard driveway approaches installed at intersections
24 with public streets, unless curb returns are authorized by the public works director.

25 **G. Sidewalks.** Pedestrian access shall be provided either by constructing sidewalks in
26 accordance with the design criteria, or pedestrian access may be provided by a
27 comprehensive on-site pedestrian access system approved as part of a subdivision,
28 zoning or permit approval.

1 **H. Street Lights.** Street lights shall be installed as required by the public works
2 director.

3 **I. Street Names.** Proposed street names shall not be similar to present street names,
4 except that streets that are a prolongation or approximate prolongation of existing
5 streets shall be given the same names as the existing streets. No street shall be
6 designated by the same name as any other street even though differentiated by a suffix
7 (Terrace, Court, Lane, Place, or other term). Generally, no street should change
8 direction by more than 90 degrees without a change in street name. Private street
9 names shall be suffixed "Terrace," "Court," "Lane," or "Place."

10 **J. Signs.** Street signs shall be installed at all street intersections in accordance with
11 city of Chico public street improvement standards. The street sign shall clearly
12 indicate that the street is a private street. Stop signs shall be installed on all private
13 streets that intersect a public street.

14 **K. House Numbers.** House and unit numbers shall be assigned by the building official
15 and shall be placed and maintained in a manner which is clearly visible from the street.

16 **L. Parking.**

17 **1.** All private streets approved for no on-street parking shall be signed for "NO
18 PARKING".

19 **2.** All private streets providing emergency vehicle access shall provide additional
20 signage and markings as directed by the fire chief and chief of police.

21 **3.** All development utilizing private streets without on-street parking shall provide
22 off-street parking in the amount specified in Title 19 of this code plus two (2)
23 additional spaces for each residential unit.

24 **4.** At the time the private street is created, a statement shall be included in the
25 conditions, covenants and restrictions or other recorded document approved by the
26 city attorney that sets forth the following:

27 **a.** On-street parking is prohibited on private streets (if appropriate).

28 **b.** The California Vehicle Code does not apply to routine traffic matters on private

1 streets.

2 **c.** The city of Chico police department does not enforce or respond to routine traffic
3 matters on private streets.

4 **M.** Setbacks. On any lot abutting a private street, any setback required by this code
5 shall be measured from the edge of the private street easement.

6 **N.** Private Street Maintenance. Whenever private streets are approved for a
7 residential subdivision, the developer or subdivider through recorded conditions,
8 covenants and restrictions, or other instrument approved by the city attorney shall
9 provide for the following:

10 **1.** Maintenance of the private street and related private facilities, including but not
11 limited to the following:

12 **a.** Street;

13 **b.** Street lights;

14 **c.** Traffic-control devices, if any;

15 **d.** Sanitary sewer facilities;

16 **e.** Storm drainage facilities.

17 **2.** If the private street and related private facilities are not adequately maintained,
18 the city, after prior notice to the organization responsible for maintenance and
19 property owners, shall have the right to:

20 **a.** Enter upon and maintain and repair the facilities, and to recover the prorata costs
21 of such maintenance or repairs from each owner of a lot having access to a private
22 street or utilizing private facilities, which costs shall constitute a lien upon the lot until
23 paid; and/or

24 **b.** Form a maintenance district or benefit assessment district to provide for the
25 maintenance of such private streets or facilities.

26 **3.** A private homeowners' association shall be formed to maintain all private streets
27 and other related private facilities whenever conditions, covenants and restrictions
28 are prepared for a residential subdivision containing five or more lots.

1 **Section 3.** That Section 18R.08.050, entitled "Storm drainage.", is amended as follows:

2 **18R.08.050 Storm drainage.**

3 **A. General Requirements.** The subdivider shall provide storm drainage facilities that
4 will convey stormwater runoff, whether originating within the subdivision or in
5 adjacent areas, to an existing drainage channel or drainage system. Adequate access
6 for maintenance of the system shall be provided. The capacity of an existing drainage
7 system must be large enough to accommodate the additional runoff generated by the
8 subdivision. Drainage patterns existing prior to construction of the subdivision shall
9 be maintained, and full consideration must be given to the rights of adjacent property
10 owners with regard to surface water drainage.

11 The city will determine the capacity of an existing storm drain system.

12 The subdivider's engineer shall prepare an analysis and report, with
13 infiltration test results and design of the proposed storm drainage system, including
14 Low Impact Development requirements per CMC 15.50.080. When staged
15 construction is proposed, the analysis shall provide for the design of the entire storm
16 drainage system.

17 The analysis shall consider all existing and future contributory drainage area,
18 regardless of whether or not said area is in the subdivision.

19 The preliminary analysis shall accompany the tentative map.

20 **B. Hydrology.**

21 **1. Storm Runoff.** Runoff shall be computed by the rational method or alternative
22 methodology required or approved by the City.

23 (Q = CIA) where:

24 Q = rate of runoff in cfs

25 C = coefficient of runoff

26 I = intensity of rainfall in inches/hr during the time of concentration t_c (min.) – The
27 time of concentration is the elapsed time between the beginning of the flow travel time
28 from the most remote point in the area tributary to a point of interest to that point of

1 interest storm and peak flow at the drainage structure A typical point of interest would
2 be an inlet to a drainage system.

3 A = drainage area, acres

4 Computations should be clear and complete with all assumptions clearly stated. An
5 exhibit showing the tributary areas shall accompany the report. In making such
6 computations, the following information shall be used:

7 **a.** Coefficient of Runoff. Typical values for runoff coefficients are set forth in the
8 Storm Water Master Plan.

9 **b.** Intensity of Rainfall. Intensity of rainfall will be determined from the Intensity -
10 Duration Frequency Charts in the City of Chico Storm Water Master Plan.

11 **c.** Time of Concentration. A minimum time of concentration of 5 minutes should be
12 used whenever computations indicate a shorter time. For urban area drainage, the
13 maximum initial time of concentration to the first drainage facility shall be 20 minutes.
14 For unimproved areas, drainage time of concentration shall be determined by the
15 method shown for small basins in Chapter 810, "Hydrology" of the Highway Design
16 Manual. The method of computation of time of concentration should be clearly
17 indicated.

18 **d.** Design Storm Frequency. The design storm frequency shall be as follows:

19 **(1)** Bridges, 200 years;

20 **(2)** Open channels, 10 years;

21 **(3)** Culverts, 10 years;

22 **(4)** Major outfall lines, 10 years;

23 **(5)** Collector lines, 5 years;

24 **(6)** Local lines, 2 years.

25 A minimum freeboard of three feet shall be provided for bridges and box culverts,
26 two feet for open channels, and one foot for storm drainage pipe inlets and outlets.

27 **C.** Roadway Drainage.

28 **1.** Grade. The minimum grade for side ditches and gutters will be 0.25% if paved,

1 0.50% if earth.

2 **2. Limits of Flooding.** Street drainage facilities shall be designed to keep flooding
3 within six (6) feet of the face of curb for a design storm frequency of two (2) years for
4 local streets and ten (10) years for all other streets. The depth of flow at gutter flow
5 line shall not exceed 0.25 feet. Concentrated flow across the traveled way is
6 prohibited.

7 **D. Conduit Design.**

8 **1. Type.** For storm drain systems, circular pipes of reinforced concrete, smooth
9 interior high density polyethylene (HDPE) pipe up to five (5) foot diameter, or
10 Polyvinylchloride (PVC) pipe up to 12" diameter may be used. The minimum
11 required strength for all pipe in the roadway area shall be Class III as
12 designated by ASTM Specification C-76. Culverts may be of any of the above materials
13 in any standard manufactured shape. Reinforced concrete box culverts, if used shall
14 be constructed in accordance with state standard plans.

15 **2. Size.** Pipes shall have a minimum diameter of 10 inches. For flows exceeding the
16 capacity of 54-inch diameter pipe, open channels meeting the requirements of
17 subsection H below may be acceptable.

18 **3. Slope.** Slope will be controlled by physical conditions and velocity criteria. Abrupt
19 changes in slope are undesirable and are to be avoided wherever possible.

20 **4. Velocity.** Minimum velocity at full flow shall be two (2) feet per second (fps). The
21 maximum velocity for storm drains shall be 10 feet per second at design flow rate,
22 Froude numbers between 0.8 and 1.2 at design flow conditions should be avoided.
23 Culverts may have velocities greater than 10 feet per second provided full
24 consideration is given to the effects of abrasion and energy dissipation.

25 **5. Head and Head Losses.** To facilitate the passage of debris and detritus, storm
26 drains shall, unless otherwise approved, be designed to pass the design flow with a
27 free water surface. Culverts shall be designed to provide a minimum freeboard of one
28 foot from top of culvert to top of ditch bank at the entrance and exit points.

1 **6. Roughness Coefficient.** Suggested values for Manning's roughness coefficient (n)
2 are:

3 Reinforced concrete pipe0.013

4 Plastic pipe (PVC, HDPE).....0.011

5 **7. Alignment.** Alignment should be as straight as possible without undue bends and
6 angle points. Where dictated by physical conditions, curved alignment is permissible
7 as long as there is no reduction in the quality and soundness of joints. The minimum
8 radius of curvature shall be per the manufacturer's recommendations, but the
9 minimum radius shall be 300 feet.

10 **8. Cover.** Except for culverts, outside the hinge point, the minimum cover shall be two
11 (2) feet, measured from the top of the pipe to the roadway or ground surface. Where
12 less than minimum cover is necessary the Minimal Cover detail shown in the
13 improvement standards shall be used.

14 **9. Pipe Strength.** The class of conduit recommended should be adequate for most
15 conditions. Unusual situations may dictate selection of a higher strength conduit.

16 **10. Location.** The location of storm drains relative to roadway centerline shall
17 be in accordance with the improvement standards. Care should be taken that storm
18 drains and other underground facilities do not conflict with each other. Location and
19 elevation of existing and proposed sanitary sewer laterals shall be a primary
20 consideration in the design of the storm drainage facility.

21 **E. Drop Inlets.**

22 **1. Types.** The standard S-7 drop inlet as set forth in the improvement standards shall
23 be used with pipes up to 30 inches in diameter. A modified S-7 drop inlet or a manhole
24 will be used for pipe larger than 30 inches. Custom boxes shall be designed for H-20
25 loading. Special situation drop inlets are shown in Standards S-7A and S-26.

26 **2. Laterals.** Laterals shall have a minimum slope 1%.

27 **3. Location.** Drop inlets shall be installed at all gutter low points and at locations such
28 that the flooding limitations of subsection C above are met. They should not be spaced

1 further than 500 feet apart.

2 **F. Manholes.**

3 **1.** Type. The type of manhole to be utilized shall be as set forth in the improvement
4 standards.

5 **2.** Location. Manholes shall be placed:

6 **a.** Where two or more storm drain pipes join;

7 **b.** Where the conduit changes in size;

8 **c.** At angle points;

9 **d.** At points where a change of slope in the conduit occurs;

10 **e.** At changes in type of pipe.

11 **3.** Spacing. The maximum manhole spacing shall be 1,200 feet for pipe diameters of
12 48 inches or more. Spacing may vary from 350 to 700 feet for diameters less than 48
13 inches to 33 inches. Maximum spacing shall be 350 feet for conduit 30 inches or
14 smaller.

15 **4.** Access Shaft. The access shaft shall be centered over the axis of the drain for
16 conduits less than 42 inches in diameter. The shaft shall be offset and made tangent to
17 one side of the pipe when the drain diameter exceeds 42 inches.

18 **5.** Special Structures. Special structures may be required for larger diameter pipes
19 and shall be designed on an individual basis. The minimum design of special structures
20 shall comply with H-20 loading requirements.

21 **6.** Grade. The crowns of all conduits intersecting at a manhole shall generally match.
22 A minimum fall of 0.10 foot across the manhole shall be provided except in cases
23 where the conduit is continuous through the manhole.

24 **G. End Structures.**

25 **1.** General. Headwalls and other end structures shall be installed to increase
26 hydraulic efficiency, prevent erosion adjacent to the conduit and provide a
27 counterweight to prevent flotation.

28 **2.** Entrances. When a drop inlet is not installed, flared end sections should be used.

1 Headwalls may be used where dictated by physical conditions. Both installations shall
2 conform to the state standard plans.

3 **3.** Exits. Where exists are installed, headwalls or flared end sections should be used
4 for culverts. Where drainage systems discharge into a channel, standard headwalls
5 shall be installed in accordance with the improvement standards.

6 An approved energy dissipater shall be installed at outlets where velocities are
7 erosive.

8 **H.** Open Channels. The director may approve the use of open channels on an
9 individual basis. The finished channel shall have maintenance free bottom and sides.
10 Minimum bottom width shall be three feet. Side slopes shall be no steeper than 1-
11 1/2:1. All open channels shall be located in dedicated easements. An access road 12
12 feet wide shall be provided adjacent to the channel and within the easement.

13 **I.** Bank Protection. Bank protection such as slope paving, sacked riprap, and facing
14 rock may be required to protect drainage facilities, property or structures. The need
15 and nature of bank protection will be determined by the director on an individual
16 basis.

17 **J.** Temporary Leach Field Type Storm Drainage System. In accordance with the
18 provisions of the "Nitrate Action Plan - Greater Chico Urban Area - Butte County,"
19 adopted by city council Resolution No. 141 84-85 on March 19, 1985 as subsequently
20 amended, temporary leach field type storm drainage systems may be installed for
21 temporary use in cases where the public works director determines that storm water
22 cannot be conveyed to the city's storm drainage system or drainage channel because
23 facilities are not available. The following criteria shall apply to design of such systems:
24 **1.** Percolation tests shall be conducted in accordance with environmental health
25 department procedures. Tests shall be taken at the proposed depth of the drainage
26 trench(es) at such locations as required by the public works director to verify the
27 drainage capacity of the soil. Percolation rate shall be converted from minutes/inch to
28 cubic feet per second/square foot.

- 1 **2.** The trench(es) shall be designed to contain a one-in-ten year frequency storm.
- 2 **3.** The bottom of the trench(es) shall be at least ten feet above the high water table
- 3 and there shall be at least ten feet of soil capable of percolation below the bottom of
- 4 the trench(es).
- 5 **4.** The rational formula, $Q=CIA$, shall be used to determine inflow into trench(es).
- 6 **5.** One-third of the trench(es) volume as void area shall be used in computing amount
- 7 of storm water storage available in trench(es). Rock size in trench(es) shall be from
- 8 one-half inch to four inches in size.
- 9 **6.** Fifty percent of the trench(es) bottom area and one-half of the depth of the
- 10 trench(es) side walls and end walls shall be used in determining the area available for
- 11 percolation out of the trench(es).
- 12 **7.** Where more than one trench is utilized, there shall be a minimum separation of
- 13 four (4) feet between trench walls.
- 14 **8.** Limitation on Use of Infiltration Best Management Practices (BMPs). Three factors
- 15 significantly influence the potential for storm water to contaminate ground water.
- 16 They are: (i) pollutant mobility, (ii) pollutant abundance in storm water, and (iii)
- 17 soluble fraction of pollutant. In addition, the distance of the groundwater table from
- 18 the infiltration BMP may also be a factor determining the risk of contamination. A
- 19 water table distance separation of ten feet in depth in California presumptively poses
- 20 negligible risk for storm water not associated with industrial activity or high vehicular
- 21 traffic. Site specific conditions must be evaluated when determining the most
- 22 appropriate BMP. Additionally, monitoring and maintenance must be provided to
- 23 ensure groundwater is protected and that the infiltration BMP is not rendered
- 24 ineffective by overload. This is especially important for infiltration BMPs in areas of
- 25 industrial activity or areas subject to high vehicular traffic (25,000 or greater average
- 26 daily traffic (ADT) on a main roadway or 15,000 or more ADT on any intersecting
- 27 roadway). Provide pretreatment for infiltration trenches in order to reduce the
- 28 sediment load, hydrocarbons, and trash.

1 **K. Post-Construction Structural or Treatment Control Best Management Practices.**

2 Post construction standards shall comply with Municipal Code Chapter 15.50,
3 Stormwater Discharge management Controls.

4 The location of the system shall be readily maintainable with an all-weather paved or
5 concrete surface and accessible by large (jet vactor) equipment.

6 Access points or manholes should be situated reasonably close (max 8 feet) to the all-
7 weather surface.

8 There shall be minimal roadway obstructions next to the facility maintenance points.
9 Vegetation or trees shall be planted in locations where growth will not obstruct future
10 access.

11 The vactor muzzle used for maintenance is 12 inch diameter and is rigid for 15 feet.
12 Design of weirs, chambers, manifolds, and access points shall accommodate nozzle
13 size.

14 Where feasible, structure's bottoms will be sloped to the center of the structure
15 directly below access point.

16 Where grouting is specified/performed, the installer shall thoroughly eliminate all
17 spilled grout promptly before hardening.

18 Developer shall provide the City with all information and notes necessary to operate
19 and maintain storm water quality treatment and quantity facilities on the approved
20 improvement plans.

21 **Section 4.** That Table 4, entitled "CHICO AREA RAINFALL INTENSITY-DURATION-
22 FREQUENCY DESIGN CHART", is removed in its entirety.

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1 **Section 5.** This Resolution shall be effective following its adoption.

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THE FOREGOING RESOLUTION WAS ADOPTED at a meeting of the City Council of the
City of Chico held on **January 6, 2026**, by the following vote:

6 AYES: **Goldstein, Hawley, O'Brien, van Overbeek, Winslow, Bennett, Reynolds**

7 NOES: **None**

8 ABSENT: **None**

9 ABSTAINED: **None**

10 DISQUALIFIED: **None**

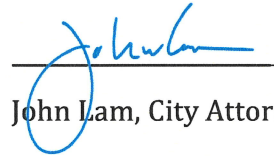
11 ATTEST:

APPROVED AS TO FORM:

12 
13 _____

14 Deborah R. Presson

15 City Clerk

16 
17 _____

18 John Lam, City Attorney*

19 *Pursuant to The Charter of
20 the City of Chico, Section 906(E)
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