



ORDINANCE 2007-A341

AN ORDINANCE OF THE MAYOR AND COMMON COUNCIL OF THE TOWN OF CAMP VERDE, YAVAPAI COUNTY, ARIZONA, AMENDING ORDINANCE 2004-A274 ADOPTING BY REFERENCE THE 2003 INTERNATIONAL PLUMBING CODE, (IPC), AND 2003 INTERNATIONAL BUILDING CODE APPENDIX J - GRADING , ESTABLISHING FEE SCHEDULES, AND PROSCRIBING PENALTIES FOR VIOLATIONS THEREOF.

WHEREAS, the Town Council adopted Ordinance 2004-A274 on March 8, 2004, Chapter 7 - Building, Article 7-1, Adoption of the 2003 International Code Council Codes, (ICC) and Related Public Codes of the Town Code adopting the International Code Council Codes, and related codes, establishing fee schedules, and proscribing penalties for violations thereof, and

WHEREAS, the Arizona Uniform Plumbing Code sunsets on June 30, 2007, and

WHEREAS, it is in the best interest of the Town council and staff to replace the currently established Arizona Uniform Plumbing Code by adopting the 2003 International Plumbing Code, Published by the International Code Council Incorporated, 2003 Edition, and

WHEREAS, it is in the best interest of the Town council and staff to also adopt Appendix J - Grading of the 2003 International Building Code, and

WHEREAS, the International Code Council Codes and related codes as set forth in this ordinance, together with all future amendments, revisions, and modifications as issued by the respective publishing agencies, upon adoption of this ordinance, shall be kept on file with the Town Clerk, and the Building Department,

NOW THEREFORE, THE MAYOR AND COMMON COUNCIL OF THE TOWN OF CAMP VERDE RESOLVE TO ADOPT BY REFERENCE AND CHANGE THE TOWN CODE AS FOLLOWS:

Section 1. Chapter 7 – Building, Article 7, Adoption of the 2003 International Code Council Codes (ICC), and related public codes of the Town Code is amended to read:

CHAPTER 7 – BUILDING, Article 7-1 ADOPTION OF THE 2003 INTERNATIONAL CODE COUNCIL CODES, (ICC) AND RELATED PUBLIC CODES

Pursuant to ARS §9-802 (as amended), the Town hereby adopts for application and enforcement for all construction within Town limits the following codes heretofore in existence, together with all future amendments, revisions, and modifications as issued by the respective publishing agencies.

1. 2003 International Code Council Codes, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
2. 2003 International Code Council Code Standards, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
3. 2003 International Fire Code, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
4. 2003 International Fuel Gas Code, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
5. 2003 International Mechanical Code, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
6. 2003 International Property Maintenance Code, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
7. 2003 International Private Sewage Disposal Code, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
8. 2002 National Electrical Code, Published by the National Fire Protection Association, 2002 Edition.
9. 2003 International Residential Code, Published by the International Code Council Incorporated, (ICC), 2003 Edition.
10. National Fire Protection Association Standards, Published by the National Fire Protection Association, 2002 Edition.
11. 2003 International Building Code ASTM Referenced Standards, Published by the American Society for Testing & Materials, 2003 Edition.
- 12. 2003 INTERNATIONAL PLUMBING CODE, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL INCORPORATED, (ICC), 2003 EDITION.**
- 13. 2003 INTERNATIONAL BUILDING CODE, APPENDIX J – GRADING, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL INCORPORATED, (ICC), 2003 EDITION.**
14. And Amendments

The effective date of the ordinance shall be July 1, 2007, after which all new construction and work in progress shall meet the standards set forth in the ICC and the above-related codes.

The Town Council shall adopt fee schedules for inspection and certification under the codes from time to time, upon recommendation of the Community Development Director.

At least three (3) copies of the ICC and the above codes, and any future amendments or revisions, shall be kept on file in the Community Development Department. All copies shall be readily available for inspection, including any supplementary pamphlets or explanatory booklets for distribution to the public.

It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the same to be done in violation of any standard or provision of the ICC and above related codes, including their subsequent revisions and modifications.

In addition to the criminal penalties, the Court, upon conviction, may order abatement or removal of the construction, and issue appropriate injunctive relief. The Director of Community Development shall issue no final certificate of occupancy until the construction or action described in this paragraph has been inspected and shown to meet all ICC and related code requirements, and all fees to the Town paid.

The Chief Building Official shall be the administrative authority duly appointed to enforce these codes.

Section 2. Any person found guilty of violating any provision of this ordinance shall be guilty of a Class 2 misdemeanor. Each day that a violation continues shall be a separate offense and punishable as a separate offense.

**PASSED AND APPROVED by a majority vote of the Town Council of
Camp Verde, Arizona, this 23RD day of May 2007.**

Tony Gioia 5/23/07
Tony Gioia, Mayor

Date: 5/20/07

Approved as to Form:

Attest: Deborah Barber
Deborah Barber, Town Clerk

[Signature]
Attorney

Effective 7-1-07

Publish 6-13-07 & 6-20-07

Posted by D Jones

Date/Time: 6-01-07 4:00 p.m

APPENDIX J

GRADING

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION J101 GENERAL

J101.1 Scope. The provisions of this chapter apply to grading, excavation and earthwork construction, including fills and embankments. Where conflicts occur between the technical requirements of this chapter and the soils report, the soils report shall govern.

J101.2 Flood hazard areas. The provisions of this chapter shall not apply to grading, excavation and earthwork construction, including fills and embankments, in floodways within flood hazard areas established in Section 1612.3 unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed work will not result in any increase in the level of the base flood.

SECTION J102 DEFINITIONS

J102.1 Definitions. For the purposes of this appendix chapter, the terms, phrases and words listed in this section and their derivatives shall have the indicated meanings.

BENCH. A relatively level step excavated into earth material on which fill is to be placed.

COMPACTION. The densification of a fill by mechanical means.

CUT. See Excavation.

DOWN DRAIN. A device for collecting water from a swale or ditch located on or above a slope, and safely delivering it to an approved drainage facility

EROSION. The wearing away of the ground surface as a result of the movement of wind, water or ice.

EXCAVATION. The removal of earth material by artificial means, also referred to as a cut.

FILL. Deposition of earth materials by artificial means.

GRADE. The vertical location of the ground surface.

GRADE, EXISTING. The grade prior to grading.

GRADE, FINISHED. The grade of the site at the conclusion of all grading efforts.

GRADING. An excavation or fill or combination thereof.

KEY. A compacted fill placed in a trench excavated in earth material beneath the toe of a slope.

All slope references in the chapter have been modified to show the horizontal:vertical relationship.

SLOPE. An inclined surface, the inclination of which is expressed as a ratio of horizontal distance to vertical distance.

TERRACE. A relatively level step constructed in the face of a graded slope for drainage and maintenance purposes.

SECTION J103 PERMITS REQUIRED

J103.1 Permits required. Except as exempted in Section J103.2, no grading shall be performed without first having obtained a permit therefor from the building official. A grading permit does not include the construction of retaining walls or other structures.

J103.2 Exemptions. A grading permit shall not be required for the following:

1. Grading in an isolated, self-contained area, provided there is no danger to the public, and that such grading will not adversely affect adjoining properties.
2. Excavation for construction of a structure permitted under this code.
3. Cemetery graves.
4. Refuse disposal sites controlled by other regulations.
5. Excavations for wells, or trenches for utilities.
6. Mining, quarrying, excavating, processing or stockpiling rock, sand, gravel, aggregate or clay controlled by other regulations, provided such operations do not affect the lateral support of, or significantly increase stresses in, soil on adjoining properties.
7. Exploratory excavations performed under the direction of a registered design professional. This phrase was added to assure that the "exploratory excavation" is not to begin construction of a building prior to receiving a permit for the sole purpose of preparing a soils report.

Exemption from the permit requirements of this appendix shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

SECTION J104 PERMIT APPLICATION AND SUBMITTALS

J104.1 Submittal requirements. In addition to the provisions of Section 105.3, the applicant shall state the estimated quantities of excavation and fill.

J104.2 Site plan requirements. In addition to the provisions of Section 106, a grading plan shall show the existing grade and finished grade in contour intervals of sufficient clarity to indicate the nature and extent of the work and show in detail that it complies with the requirements of this code. Drafting requirements were deleted here. The plans shall show the existing grade on adjoining properties in sufficient detail to identify

how grade changes will conform to the requirements of this code.

J104.3 Soils report. A soils report prepared by registered design professionals shall be provided which shall identify the nature and distribution of existing soils; conclusions and recommendations for grading procedures; soil design criteria for any structures or embankments required to accomplish the proposed grading; and, where necessary, slope stability studies, and recommendations and conclusions regarding site geology.

Exception: A soils report is not required where the building official determines that the nature of the work applied for is such that a report is not necessary.

J104.4 Liquefaction study. For sites with mapped maximum considered earthquake spectral response accelerations at short periods (S_s) greater than 0.5g as determined by Section 1615, a study of the liquefaction potential of the site shall be provided, and the recommendations incorporated in the plans.

Exception: A liquefaction study is not required where the building official determines from established local data that the liquefaction potential is low.

**SECTION J105
INSPECTIONS**

J105.1 General. Most of this section was deleted or simplified. Inspections shall be governed by Section 109 of this code.

J105.2 Special inspections. The special inspection requirements of Section 1704.7 shall apply to work performed under a grading permit where required by the building official.

**SECTION J106
EXCAVATIONS**

J106.1 Maximum slope. The slope of cut surfaces shall be no steeper than is safe for the intended use, and shall be no steeper than 2 horizontal to 1 vertical (50 percent) unless the applicant furnishes a soils report justifying a steeper slope.

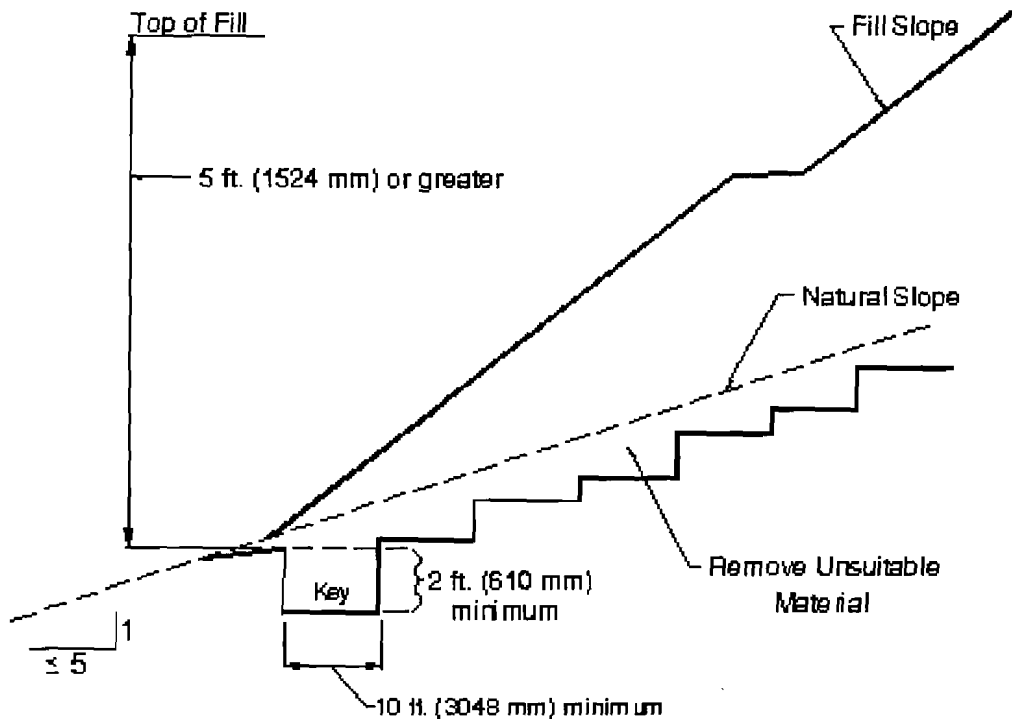
Exceptions:

1. A cut surface may be at a slope of 1.5 horizontal to 1 vertical (67 percent) provided that all the following are met:
 - 1.1. It is not intended to support structures or surcharges.
 - 1.2. It is adequately protected against erosion.
 - 1.3. It is no more than 8 feet (2438 mm) in height.
 - 1.4. It is approved by the building official.
2. A cut surface in bedrock shall be permitted to be at a slope of 1 horizontal to 1 vertical (100 percent).

**SECTION J107
FILLS**

J107.1 General. Unless otherwise recommended in the soils report, fills shall conform to provisions of this section.

J107.2 Surface preparation. The ground surface shall be prepared to receive fill by removing vegetation, topsoil and other unsuitable materials, and scarifying the ground to provide a bond with the fill material.



For SI: 1 foot = 304.8 mm

**FIGURE J107.3
BENCHING DETAILS**

J107.3 Benching. Where existing grade is at a slope steeper than 5 horizontal to 1 vertical (20 percent) and the depth of the fill exceeds 5 feet (1524 mm) benching shall be provided in accordance with Figure J107.3. A key shall be provided which is at least 10 feet (3048 mm) in width and 2 feet (610 mm) in depth.

J107.4 Fill material. Fill material shall not include organic, frozen or other deleterious materials. No rock or similar irreducible material greater than 12 inches (305 mm) in any dimension shall be included in fills.

J107.5 Compaction. All fill material shall be compacted to 90 percent of maximum density as determined by ASTM D1557, Modified Proctor, in lifts not exceeding 12 inches (305 mm) in depth.

J107.6 Maximum slope. The slope of fill surfaces shall be no steeper than is safe for the intended use. Fill slopes steeper than 2 horizontal to 1 vertical (50 percent) shall be justified by soils reports or engineering data.

**SECTION J108
SETBACKS**

J108.1 General. Cut and fill slopes shall be set back from the property lines in accordance with this section. Setback dimensions shall be measured perpendicular to the property line and shall be as shown in Figure J108.1, unless substantiating data is submitted justifying reduced setbacks.

J108.2 Top of slope. The setback at the top of a cut slope shall not be less than that shown in Figure J108.1, or than is required to accommodate any required interceptor drains, whichever is greater.

J108.3 Slope protection. Where required to protect adjacent properties at the toe of a slope from adverse effects of the grading, additional protection, approved by the building official,

shall be included. Such protection may include but shall not be limited to:

1. Setbacks greater than those required by Figure J108.1.
2. Provisions for retaining walls or similar construction.
3. Erosion protection of the fill slopes.
4. Provision for the control of surface waters.

**SECTION J109
DRAINAGE AND TERRACING**

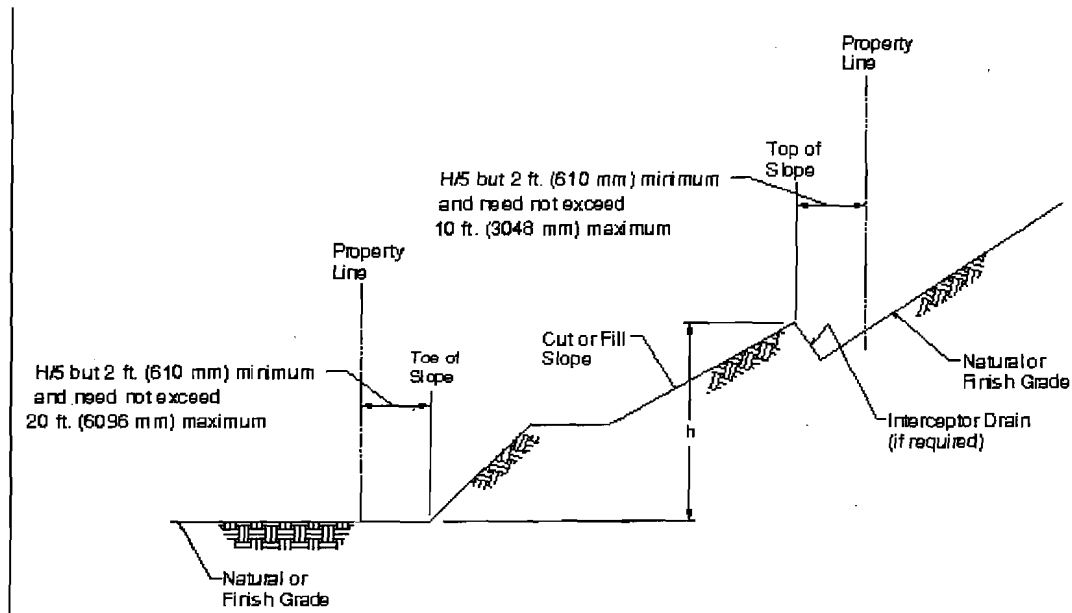
J109.1 General. Unless otherwise recommended by a registered design professional, drainage facilities and terracing shall be provided in accordance with the requirements of this section.

Exception: Drainage facilities and terracing need not be provided where the ground slope is not steeper than 3 horizontal to 1 vertical (33 percent).

J109.2 Terraces. Terraces at least 6 feet (1829 mm) in width shall be established at not more than 30-foot (9144 mm) vertical intervals on all cut or fill slopes to control surface drainage and debris. Suitable access shall be provided to allow for cleaning and maintenance.

Where more than two terraces are required, one terrace, located at approximately mid-height, shall be at least 12 feet (3658 mm) in width.

Swales or ditches shall be provided on terraces. They shall have a minimum gradient of 20 horizontal to 1 vertical (5 percent) and shall be paved with concrete not less than 3 inches (76 mm) in thickness, or with other materials suitable to the application. They shall have a minimum depth of 12 inches (305 mm) and a minimum width of 5 feet (1524 mm).



For SI: 1 foot = 304.8 mm

**FIGURE J108.1
DRAINAGE DIMENSIONS**

A single run of swale or ditch shall not collect runoff from a tributary area exceeding 13,500 square feet (1256 m²) (projected) without discharging into a down drain.

J109.3 Interceptor drains. Interceptor drains shall be installed along the top of cut slopes receiving drainage from a tributary width greater than 40 feet (12 192 mm), measured horizontally. They shall have a minimum depth of 1 foot (305 mm) and a minimum width of 3 feet (915 mm). The slope shall be approved by the building official, but shall not be less than 50 horizontal to 1 vertical (2 percent). The drain shall be paved with concrete not less than 3 inches (76 mm) in thickness, or by other materials suitable to the application. Discharge from the drain shall be accomplished in a manner to prevent erosion and shall be approved by the building official.

J109.4 Drainage across property lines. Drainage across property lines shall not exceed that which existed prior to grading. Excess or concentrated drainage shall be contained on site or directed to an approved drainage facility. Erosion of the ground in the area of discharge shall be prevented by installation of nonerosive down drains or other devices.

SECTION J110 EROSION CONTROL

J110.1 General. The faces of cut and fill slopes shall be prepared and maintained to control erosion. This control shall be permitted to consist of effective planting.

Exception: Erosion control measures need not be provided on cut slopes not subject to erosion due to the erosion-resistant character of the materials.

Erosion control for the slopes shall be installed as soon as practicable and prior to calling for final inspection.

J110.2 Other devices. Where necessary, check dams, cribbing, riprap or other devices or methods shall be employed to control erosion and provide safety.

SECTION J111 REFERENCED STANDARDS

ASTM D 1557-00	Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort [56,000 ft-lb/ft ³ (2,700kN-m/m ³)].	J107.6
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