

# CITY OF YUCAIPA



## **Design Standard Plans FOR Public Works Construction AND Development Guidelines**

## INTRODUCTION

City of Yucaipa Design Standard Plans is a compilation of design guidelines, specifications, and standard drawings necessary for use in construction of public works improvements, and a guideline for developer site grading and drainage within the City of Yucaipa.

The purpose of this manual is to assist Homeowners, Developers, Builders, Engineers, and Architects by providing information regarding the standard drawings, specifications, design procedures and requirements, checklists, and other information applicable to construction of public works projects and private developments within the City of Yucaipa. Should any portion of these Standard Plans be found to be in conflict with the provisions of the City of Yucaipa Development Codes, the provision of the referenced Codes shall govern.

Recommended for Approval By:

FRECHADO

7/30/08  
Date

Approved By:  
City of Yucaipa

Raymond A. Casey  
Raymond A. Casey, P.E.  
City Engineer / Director of Public Works

7/30/08  
Date

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# **CHAPTER**

## **1**

# **STANDARD DESIGN GUIDELINES**

## STANDARD DESIGN GUIDELINES

This manual represents a comprehensive and easy to follow approach to the City of Yucaipa Standard Design Guidelines, for use in conjunction with the *Standard Specifications for Public Works Construction*, "Greenbook", latest edition, required by the City for proposed public works and grading projects.

Each section contains specific information to assist engineers, architects, owners, developers and the citizens of the community to prepare construction plans for public works and site grading improvements for the City of Yucaipa review and approval.

The City has a wide option of standard drawings and specifications to choose for preparing the project design plans for their projects using the most current edition as appropriate.

However, a hierarchy of standard drawing and specifications has been established for use within the City. The hierarchy is as follows:

- 1- City of Yucaipa Standard Design Guidelines
- 2- San Bernardino County Department of Public Works and Flood Control Standards and Specifications
- 3- APWA Standard Plans and Standard Specifications for Public Works Construction.
- 4- Caltrans Standard Plans and Standard Specifications
- 5- Los Angeles County Department of Public Works Standard Plans and Specifications

Any other Agency Standard Plans or Specifications or the use of an Agency's Standard or Specifications over one that has higher status can only be accomplished by obtaining prior approval from the City Engineer.

The use of metric units for design is not required by the City of Yucaipa as of the date of these standards. Specific projects may require metric units as determined by the City Engineer.

## **LIST OF APPLICABLE AGENCY STANDARDS**

### **COUNTY OF SAN BERNARDINO**

For the County of San Bernardino, all Standard Plans and specifications apply except for any standards modified or superceded by specific City of Yucaipa Standard Drawings.

In addition, the following Agency Standards supplement the City of Yucaipa and County of San Bernardino Standards and can be referenced on construction plans as necessary for their implementation.

### **AMERICAN PUBLIC WORKS ASSOCIATION (A.P.W.A.) STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION**

- 151-1 PARKWAY DRAIN
  
- 221-1 PIPE ANCHORS AND BACKFILL STABILIZERS
- 224-1 SUPPORTS FOR CONDUIT ACROSS TRENCHES
- 225-1 BLANKET PROTECTION FOR PIPES
  
- 350-1 YARD INLET
- 360-0 SLOPED PROTECTION BARRIER
- 361-0 TRASH RACK (INCLINED)
- 380-2 CONCRETE COLLAR FOR RCP 12" THROUGH 72"
- 381-1 ABANDONMENT SEALS FOR MANHOLES AND INLETS
- 383-1 VELOCITY CONTROL RING PRECAST RCP SECTION
- 384-1 ENERGY DISSIPATOR – IMPACT BASIN WITH VERTICAL  
BAFFLE WALL
  
- 601-1 REINFORCED CONCRETE BLOCK WALL
- 602-1 STANDARD PIPE GATE FOR ACCESS ROADS
- 606-1 METAL HAND RAILINGS
- 610-1 REINFORCED CONCRETE RETAINING WALL TYPE 1
- 611-1 REINFORCED CONCRETE RETAINING WALL TYPE 2
- 612-1 REINFORCED CONCRETE RETAINING WALL TYPE 3
- 613-1 REINFORCED CONCRETE RETAINING WALL TYPE 4
- 614-1 REINFORCED CONCRETE RETAINING WALL TYPE 5
- 615-2 REINFORCED CONCRETE RETAINING WALL TYPE 6
- 616-1 REINFORCED CONCRETE RETAINING WALL TYPE 7
- 617-1 REINFORCED CONCRETE RETAINING WALL DETAILS
- 618-1 MASONRY RETAINING WALL
- 619-1 REINFORCED CONCRETE CRIB WALL
- 620-1 STEEL CRIB WALL
- 621-1 REINFORCED CONCRETE BLOCK WALL AND CHAIN LINK  
FENCE COMBINATION
- 622-1 CONCRETE BLOCK SLOUGH WALL

## CALTRANS

- A20A PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
- A20B PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
- A20C PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
- A20D PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
- A24A PAVEMENT MARKINGS – ARROWS
- A24B PAVEMENT MARKINGS – ARROWS
- A24C PAVEMENT MARKINGS – SYMBOLS AND NUMERALS
- A24D PAVEMENT MARKINGS – WORDS
- A24E PAVEMENT MARKINGS – WORDS AND CROSSWALKS
- A73A MARKERS
- A73B MARKERS
- A73C DELINEATORS, CHANNELIZERS AND BARRICADES
- A77A METAL BEAM GUARD RAILING
- A77B METAL BEAM GUARD RAILING – STANDARD HARDWARE
- A77C METAL BEAM GUARD RAILING – POSTS AND BLOCKS
- A77D GUARD RAIL FLARES
- A77E GUARD RAIL FLARES
- A77F METAL BEAM GUARD RAILING – MISCELLANEOUS DETAILS
- A81 CRASH CUSHION, SAND FILLED
  
- T1 TEMPORARY CRASH CUSHION, SAND FILLED
- T2 TEMPORARY CRASH CUSHION, SAND FILLED
  
- RS1 ROADSIDE SIGNS TYPICAL INSTALLATION DETAILS NO. 1
- RS2 ROADSIDE SIGNS – WOOD POST TYPICAL INSTALLATION  
DETAILS NO. 2
- RS3 ROADSIDE SIGNS – LAMINATED WOOD BOX POST TYPICAL  
INSTALLATION DETAILS NO. 3
- RS4 ROADSIDE SIGNS TYPICAL INSTALLATION DETAILS NO. 4
  
- ES SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS  
(ENTIRE SECTION ES-1A – ES-33)
  
- NSP A40 RUMBLE STRIP DETAILS
- NSP A77GA ANCHOR ASSEMBLY (BREAKAWAY, TYPE M) –  
HARDWARE AND POST DETAIL
- RNSP A88

## LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

For the Los Angeles County Department of Public Works, all Standards that pertain to following section can be utilized where the County of San Bernardino Standards are not available and with prior approval by the City Engineer.

### SECTION 3 – FLOOD CONTROL & STORM DRAIN FACILITIES