CITY OF FONTANA
STANDARDS DESIGN GUIDELINES

The City of Fontana’s Standard Plans for Public Work Construction represents a comprehensive and easy to follow approach for use in conjunction with the Standard Specifications for Public Works Construction, “Greenbook”, latest edition, required by the City for proposed public works projects.

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.

The Design Engineer assumes full responsibility for use of these standards when preparing plans. The Design Engineer assumes that these standards will meet all project requirements. When the City of Fontana Standard Plans do not meet the project requirements and other standards are used they must be shown on the plans.

However, the following standards drawings are recognized for used within the City:

1. San Bernardino County Department of Public Works and Flood Control Standards and Specifications
2. Caltrans Standard Plans and Specifications

Any other Agency Standard Plans or Specifications or the use of an Agency’s Standard or Specifications over the City Standards must have approval from the City Engineer.
DESIGN STANDARDS

SECTION 400 – STREET DESIGN

400 Typical Undivided Street Sections – Local, Collector, Collector Industrial, and Secondary Highway (Level and Tilted Sections) – Revised 12/03/07

401 Typical Divided Street Sections – Primary and Major (Level and Tilted Sections) – Revised 12/03/07

402 Street Design Requirements

403 (2 Sheets) Cross Gutter (Standard)

404 (2 Sheets) Street Lights – Revised 12/12/11

405 Cul – De – Sac

406 Offset Cul – De – Sac

407 Standard Knuckle (Intersection and “L” Shape Design)

SECTION 700 – TRAFFIC

700 (3 Sheets) Intersection Sight Distance

701 Access Management Requirements

SECTION 900 – MISCELLANEOUS

900 (2 Sheets) Sewer and Storm Drain Easement Widths

901 Underground Utility Location
CONSTRUCTION STANDARDS

SECTION 1000 – STREET IMPROVEMENTS

1000 Curb and Gutter

1001 (2 Sheets) Residential/Commercial/Industrial Driveway with Curb Adjacent Sidewalks – Revised 07/29/08

1002 (2 Sheets) Residential/Commercial/Industrial Driveway with Parkway Sidewalks

1003 (2 Sheets) Standard Curb Return Access Ramp – Revised 12/12/11

1004 (2 Sheets) Modified Curb Return Access Ramp – Revised 09/14/10

1005 Standard Bus Bay – Revised 12/03/07

1006 (2 Sheets) Sidewalks

1007 Asphalt Concrete Dike

1008 (2 Sheets) Standard Trench Repair – Revised 12/03/07

1009 Plate Bridging

SECTION 2000 – SEWER

2000 Standard Manhole Frame and Cover and Reinforced Concrete Collar

2001 (2 Sheets) Standard Cast in Place Manhole for Sewer – Revised 12/03/07

2002 Standard Drop Manhole for 6” to 36” Pipe

2003 Typical Sewer Manhole Bases

2004 Sewer Terminal Cleanout

2005 Sewer Lateral House Cleanout – Revised 12/15/14

2006 Concrete Sewer Cleanout Box

2007 Plastic Sewer Cleanout Box

2008 (2 Sheets) Sewer Saddle

2009 Sewer Lateral House Cleanout Vertical Access – Added 07/22/08
CONSTRUCTION STANDARDS

SECTION 3000 – STORM DRAIN

3000 Discharge Structure
3001 Under Sidewalk Drain
3002 Residential Curb Drain
3003 (3 Sheets) Local Depressions at Catch Basins
3004 (2 Sheets) Curb Opening Catch Basin
3005 (2 Sheets) Monolithic Catch Basin Connection
3006 (2 Sheets) Grate Catch Basin Reinforcement
3007 (6 Sheets) Catch Basin Face Plate Assembly and Protection Bar
3008 (2 Sheets) Catch Basin Manhole Frame and Cover
3009 (2 Sheets) Junction Structure – Pipe to Pipe (ID ≤ 24”)
3010 (2 Sheets) Junction Structure – Pipe to Pipe Inlet ID ≥ 24” or OD ≥ 1/2 Main Line ID
3011 (4 Sheets) Manhole Pipe to Pipe (Large Side Inlet)
3012 (4 Sheets) Manhole Pipe to Pipe Mainline (ID = 36” or Larger)
3013 (3 Sheets) Manhole Pipe o Pipe (One or Both Main Line ID’s 33” or Smaller)
3014 (2 Sheets) Manhole Shaft with Eccentric Reducer
3015 (2 Sheets) Manhole Shaft 36” Without Reducer
3016 (2 Sheets) Pressure Manhole Shaft with Eccentric Reducer
3017 (2 Sheets) Pressure Manhole Shaft and Pressure Plate Detail 36” Without Reducer
3018 (2 Sheets) Manhole Frame and Cover Pressure Type
3019 (2 Sheets) 24” Manhole Frame and Cover
3020 Headwall – Wing Type
3021 (3 Sheets) Trash Rack Inclined
CONSTRUCTION STANDARDS

SECTION 3000 – STORM DRAIN (cont’d)

3022 (2 Sheets) Concrete Collar for RCP 12” Through 72”
3023 (2 Sheets) 36” Manhole Frame and Cover
3024 (2 Sheets) Steel Step
3025 (3 Sheets) Pipe Connections to Existing Storm Drains
3026 (2 Sheets) Transition Structure Pipe to Pipe

SECTION 4000 – TRAFFIC

4000 Standard Barricade
4001 Type R Controller Cabinet Foundation Detail -- Revised 12/10/15
4002 Type 1-A Foundation Detail
4003 (4 Sheets) Sign Installation Details – Revised 02/02/16
4004 Autoscope Solopro Installation Detail – Revised 01/07/13
4005 (6 Sheets) Overhead Reflective Street Name Sign Details – Revised 02/02/16
4006 Pullbox Conduit Entry Detail – Revised 12/10/15
4007 CCTV Camera/Cable Installation and Orientation

SECTION 5000 – LANDSCAPING

5001 Typical House Connection
5002 Control Placement Detail
5003 Rain Sensor
5004 Rain Guard
5005 (3 Sheets) Irrigation Controller – Revised 06/22/15
5006 Tipping Bucket
5007 Typical Backflow - Revised 06/10/2015
CONSTRUCTION STANDARDS

SECTION 5000 – LANDSCAPING (Cont’d)

5008 Typical Backflow “Private”
5009 Typical Backflow
5010 Flow Meter/Master Valve – Revised 04/23/14
5011 Typical Brass Remote Control Valve Detail
5012 Automatic Antisiphon Valve
5013 Wire Connector
5014 Wire Connection
5015 Trenching Detail
5016 Piping and Wiring
5017 Splice Box Assembly
5018 Sleev ing Detail
5019 Gate Valve
5020 Thrust Block Assembly
5021 Quick Coupler
5022 Swing Joint
5023 Lawn/4”, 6”, 8” Shrub Pop-up Head
5024 Hi Pop Shrub Head
5025 Shrub Spray Head
5026 Bubbler Head
5027 Shrub Rotor
5028 Irrigation at Top of Slope
5029 Shrub Rotor on Slope
5030 Oscillation Head Assembly
CONSTRUCTION STANDARDS

SECTION 5000 – LANDSCAPING (Cont’d)

5031 Tree Staking
5032 Tree Guying
5033 Tree Placement
5034 Palm Tree Installation
5035 Shrub Planting
5036 Shrub on Slope
5037 Vine Planting
5038 Automatic Drip Valve
5039 Emitter
5040 Emitter Layout
5041 Pot Irrigation
5042 Drip Emitter
5043 Redwood Headerboard
5044 Concrete Mow Curb
5045 Typical Rock Treatment
5046 (3 Sheets) Tree Grates – Revised 01/14/15

SECTION 6000 – MISCELLANEOUS

6000 Typical Gate Valve Adjustments
6001 (4 Sheets) “Blue Dot” Marker Placement
6002 (2 Sheets) Storm Drain Inlet Signage