

# **CONSTRUCTION STANDARDS AND SPECIFICATIONS**



**CITY OF SOUTH JORDAN**  
**Department of Municipal Services**

**Updated: March, 2018**

# INTRODUCTION

## 0.1 GENERAL

The purpose of the Construction Standards and Specifications is to govern any work done or improvements installed within the City of South Jordan including but not limited to excavation, construction, roadwork and public utilities. All construction shall conform to the South Jordan City Code, these construction standards and specifications, the latest edition of the APWA Manual of Standard Specifications and Manual of Standard Plans, the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and any state or federal regulations and permit requirements of various governing bodies. Chapter 2 of these Construction Standards and Specifications serves as a supplemental to the APWA manuals. Wherever there are differences between the supplements and APWA, the most stringent or highest requirement shall govern. The Contractor is responsible to know and conform to the appropriate codes, regulations, drawings, standards and specifications. Contractors should thoroughly read and understand these associated documents before performing any work in the City. The order of precedence in case of conflict shall be (1) South Jordan City construction standards and specifications (2) APWA (3) The approved construction drawings.

This document sets forth the procedure for designing and preparing plans and specifications for projects in the City. All submitted plans shall be signed by a civil engineer registered in the State of Utah and all work shall be in accordance with good engineering practices. Any changes from the final approved set of plans must be revised by the design engineer with stamp and signature and submitted to the South Jordan City Engineering Department for approval.



# TABLE OF CONTENTS

## INTRODUCTION

- 0.1 GENERAL

## CHAPTER 1 STANDARD NOTES

- 1.1 GENERAL
- 1.2 TRAFFIC
- 1.3 STREET LIGHT
- 1.4 GRADING
- 1.5 FIRE DEPARTMENT
- 1.6 WATER

## CHAPTER 2 AMENDMENTS TO APWA STANDARD PLANS AND SPECIFICATIONS

- 2.1 GENERAL
- 2.2 SUPPLEMENTS TO APWA

## CHAPTER 3 CULINARY WATER

- 3.1 INTRODUCTION AND GENERAL POLICIES
- 3.2 DESIGN CRITERIA
- 3.3 MATERIALS
- 3.4 PLAN PREPARATION
- 3.5 FEES, CHARGES AND REQUIREMENTS FOR
- 3.6 CONSTRUCTION STAKING
- 3.7 CONSTRUCTION
- 3.8 ABANDONMENT
- 3.9 TESTING AND DISINFECTING WATER MAINS
- 3.10 WATER SYSTEM AND WORK AREA CLEAN-UP
- 3.11 CROSS CONNECTIONS & BACKFLOW PREVENTION
- 3.12 RESERVOIRS AND PUMPING STATIONS
- 3.13 WATER SYSTEM MODELING REQUIREMENTS

## CHAPTER 4 LANDSCAPE AND IRRIGATION

- 4.1 GENERAL
- 4.2 PRODUCTS
- 4.3 EXECUTION

## CHAPTER 5 SECONDARY WATER

- 5.1 GENERAL POLICIES
- 5.2 DESIGN CRITERIA

## **CHAPTER 6 STORM DRAIN**

- 6.1 GENERAL
- 6.2 REINFORCED CONCRETE PIPE
- 6.3 HIGH DENSITY POLYETHYLENE (HDPE)
- 6.4 STORM DATA AND IDF CURVE

## **CHAPTER 7 STREETS**

- 7.1 FLEXIBLE PAVEMENT DESIGN
- 7.2 TESTING MATERIALS
- 7.3 CURB, GUTTER AND SIDEWALK
- 7.4 PARK STRIPS
- 7.5 STREET REPAIR / REPAVING POLICY
- 7.6 STREET WIDENING
- 7.7 STREET SIGNS
- 7.8 RESIDENTIAL STREET LEVEL OF SERVICE
- 7.9 TEMPORARY ROAD STANDARD

## **CHAPTER 8 STREETLIGHTS**

- 8.1 STREET LIGHT CATEGORIES
- 8.2 INSTALLATION

## **CHAPTER 9 LAND DISTURBANCE DESIGN AND CONSTRUCTION STANDARDS MANUAL**

- 9.1 INTRODUCTION AND GENERAL POLICIES
- 9.2 DESIGN CRITERIA
- 9.3 MATERIALS
- 9.4 PLAN PREPARATION
- 9.5 FEES, CHARGES AND REQUIREMENTS FOR AUTHORIZATION OF CONSTRUCTION
- 9.6 CONSTRUCTION STAKING
- 9.7 CONSTRUCTION
- 9.8 ABANDONMENT
- 9.9 TESTING
- 9.10 WORK AREA CLEAN-UP
- 9.11 REQUIREMENTS FOR FINAL ACCEPTANCE

### APPENDIXES

- A STANDARD DRAWINGS
- B TITLE 16.44 LAND DISTURBANCE ORDINANCE
- C CITY OF SOUTH JORDAN STORM WATER MANAGEMENT PLAN
- D LAND DISTURBANCE ORDINANCE PLAN CHECKLIST, APPLICATION AND AGREEMENT
- E LAND DISTURBANCE PERMIT APPLICATION AND AGREEMENT
- F EROSION AND SEDIMENT CONTROL PLAN, PRECONSTRUCTION MEETING INFORMATION
- G LAND DISTURBANCE PERMIT, EROSION SEDIMENT CONTROL PLAN, INSPECTION AND MAINTENANCE FORM
- H STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

## CHAPTER 10 DRINKING WATER SOURCE PROTECTION

CITY ORDINANCE      CHAPTER 16.50  
APPENDIX A            MAP: ZONES OF INFLUENCE FOR JVVCD WELLS  
APPENDIX B            RESTRICTED AND PROHIBITED USES IN WATER  
                                 SOURCE PROTECTION ZONES

## DRAWING INDEX

### WATER

3005 STANDARD SYMBOLS  
3010 TRENCH CROSS SECTION TERMINOLOGY & STANDARD SIZES  
3040 VALVE BOX INSTALLATION  
3045 MECHANICAL JOINT TAPPING SLEEVE  
3050 LOCATION OF FIRE HYDRANTS  
3055 FIRE HYDRANT INSTALLATION WITH MAIN IN THE ROADWAY  
3056 FIRE HYDRANT INSTALLATION WITH MAIN OUTSIDE THE ROADWAY  
3060 WASHOUT VALVE ASSEMBLY  
3065 WATER METER LOCATION  
3070 COMBINATION AIR VACUUM VALVE ASSEMBLY  
3075 AIR VENT DETAIL  
3080 DIRECT BEARING THRUST BLOCKS  
3085 TIE DOWN THRUST RETRAINTS  
3090  $\frac{3}{4}$ " and 1" METER SERVICE  
3091  $1\frac{1}{2}$ " and 2" METER SERVICE  
3092 METER SERVICE  
3095  $\frac{3}{4}$ " - 2" WATER METER PLAN SERVICE INSTALLATION  
3100 3" - 8" WATER VAULT DETAIL  
3110 SAMPLING TAP FOR RESIDENTIAL SUBDIVISIONS  
2001 BACKFLOW PREVENTION DEVICE IRRIGATION CONNECTION  
----- WATER MANHOLE COVER  
----- CONDUIT TERMINATION UNDER EQUIPMENT  
1 of 3 PRV VAULT DETAILS  
2 of 3 PRV VAULT DETAILS  
3 of 3 PRV VAULT DETAILS  
----- RTU PEDESTAL ELEVATION

### IRRIGATION

IRR-01 LINE DRAWING TRANSFORMER ENCLOSURE  
IRR-02 STRONG BOX COMBO METER ENCLOSURE  
IRR-03 LINE DRAWING TRANSFORMER ENCLOSURE  
IRR-04 PEDESTAL MOUNT CONTROLLER  
IRR-05 SLEEVING  
IRR-06 STOP & WASTE VALVE  
IRR-07 BACKFLOW RPA  
IRR-08 BACKFLOW COVER  
IRR-09 PIPE & WIRE TRENCH  
IRR-10 THRUST BLOCKING  
IRR-11 LARGE GATE VALVE  
IRR-12 MANUAL DRAIN  
IRR-13 CONTROL VALVE MANIFOLD SCH-80  
IRR-14 CONTROL VALVE MANIFOLD HARCO  
IRR-15 QUICK COUPLER VALVE  
IRR-16 REMOTE CONTROL VALVE

IRR-17 4 INCH POP-UP SPRAY HEAD  
IRR-18 6 INCH POP-UP SPRAY HEAD  
IRR-19 12 INCH POP-UP SPRAY HEAD  
IRR-20 SMALL ROTOR HEAD  
IRR-21 MEDIUM ROTOR HEAD  
IRR-22 MEDIUM ROTOR SHRUB RISER  
IRR-23 SPORTS TURF HEAD  
IRR-24 TREE WATERING SYSTEM  
IRR-25 IN LINE DRIP GRID LAYOUT  
IRR-26 DRIP SUB SURFACE TURF  
IRR-27 DRIP ON SLOPE  
IRR-28 DRIP POINT SOURCE EMITTER  
IRR-29 DRIP PVC TO PE CONNECTION

## **SECONDARY**

2001 BACKFLOW PREVENTION DEVICE IRRIGATION CONNECTION  
2002 SECONDARY WATER LATERAL LAYOUT  
2005 VALVE BOX INSTALLATION  
2006 DIRECT BEARING THRUST BLOCKS TIE DOWN RESTRAINTS  
2007 TIE DOWN THRUST RESTRAINTS  
2008 WASHOUT VALVE ASSEMBLY  
2010 SECONDARY WATER AIR VACUUM RELEASE VALVE  
2011 SECONDARY RESIDENTIAL INSTALLATION  
2012 SECONDARY WATER SERVICE CONNECTION  
2014 PRESSURE IRRIGATION CANAL GATE AND WEIR BOX  
2015 PRESSURE IRRIGATION CANAL GATE AND WEIR BOX  
2016 DRAIN VALVE DETAIL  
2017 COVER COLLAR  
2020 IRRIGATION SLIDE GATE DETAIL  
2021 HEADWALL DETAIL  
2022 HEADWALL DETAIL  
2023 SILT TRAP BOX DETAIL

## **STORM DRAIN**

SD-1 MANHOLE COVERS  
SD-2 MANHOLE COVERS 2  
SD-3 STORM DRAIN MARKERS  
SD-4 STORM DRAIN MARKER ANCHORS

## **STREETS**

3010 TRENCH CROSS SECTION TERMINOLOGY & STANDARD SIZES  
3012 ROAD WIDENING  
S-1 ROAD WIDTHS AND BORDER AREAS  
S-2 SINGLE FAMILY REAR AND SIDE PARK STRIPS ON COLLECTOR STREETS  
S-3 SIGN POSTS  
SN 10B SLIP BASE SIGN BASE (B3) INSTALLATION

## **STREETLIGHT**

SL-1 STANDARD UTILITY TRENCH  
SL-2 ELECTRICAL BOX LID  
SL-3 STEELIGHT PEDESTALS  
TSG 007077 CATEGORY 1a STREETLIGHT  
TSG 002636 CATEGORY 1b STREETLIGHT  
TSG 003175 CATEGORY 2 STREETLIGHT  
TSG 007220 CATEGORY 3 STREETLIGHT

TSG 003314 CATEGORY 4 STREETLIGHT  
SP-6224-GLV CABLE RETAINER ASSEMBLY FOR 4" FOUNDATIN ANCHOR  
SP-6200-GLV CABLE RETAINER ASSEMBLY FOR 6" FOUNDATIN ANCHOR  
SP-6205-GLV CABLE RETAINER ASSEMBLY FOR 8" FOUNDATIN ANCHOR  
SP-6358-GLV TUBE ASSEMBLY FOR 6" CABLE RETAINER  
PB-5520 DOOR ASSEMBLY TB1-17 TRANSFORMER BASE  
PB-5526 DOOR ASSEMBLY TB1-20 TRANSFORMER BASE