

DRAFT 11/20/08

DEVELOPER'S HANDBOOK AND STANDARD DRAWINGS FOR WATER AND SEWER FACILITIES



YUCAIPA VALLEY WATER DISTRICT DEVELOPER HANDBOOK & STANDARD DRAWINGS FOR WATER & SEWER FACILITIES

TABLE OF CONTENTS

PAGE

SECTION I – INTRODUCTION AND PLAN APPROVAL PROCESS

	A.	PURPOSE	I-1		
	B.	BACKGROUND	I-1		
	C.	GENERAL SERVICE CRITERIA	I-1		
	D.	SUSTAINABILITY REQUIREMENTS	I-3		
	E.	OTHER PUBLIC AGENCY REQUIREMENTS	I-11		
	F.	WATER AND SEWER PLAN APPROVAL PROCESS	I-12		
	G.	PRECEDENCE OF DOCUMENTS	I-16		
	H.	GRANTS OF EASEMENT	I-16		
Exhibit I-1 - Water and Sewer Plan Approval Process					
	Exhibit I-2 – Water and Sewer Unit Costs for Construction Cost Estimate,				
Example Water Fee Cost Worksheet, and Example Sewer Fee Cost Worksheet					
	Exhibit	t I-3 – Sample Agreement			

Exhibit I-4 – Grant of Easement Form

SECTION II – PLAN FORMAT AND REQUIREMENTS-WATER AND SEWER

А.	SHEET FORMAT - GENERAL	II-1
B.	COVER SHEET	II-2
C.	INDEX MAP	II-2
D.	PLAN AND PROFILE FORMAT	II-3
E.	PLAN CHECK CHECKLISTS	II-11
F.	DIGITAL FILE FORMAT	II-11
Exhibit	: II-1 – General Water Notes	

Exhibit II-1 – General Water Notes Exhibit II-2 – General Sewer Notes Exhibit II-3 –Water Plans Check Checklists Exhibit II-4 –Sewer Plans Check Checklists

SECTION III – DESIGN CRITERIA FOR POTABLE WATER DISTRIBUTION SYSTEMS

A.	SYSTEM DEMAND CRITERIA	III-1
B.	SYSTEM ANALYSIS	III-3
C.	WATER PIPELINE SIZING CRITERIA	III-4
D.	WATER PIPELINE LOCATION	III-5
E.	CURVE DATA	III-5
F.	OTHER UTILITIES	III-6
G.	WATER PIPELINE MATERIALS	III-6
H.	VALVES	III-6
I.	COMBINATION AIR VACUUM AND AIR RELEASE VALVES	III-7
J.	BLOWOFF VALVE ASSEMBLIES	III-7
K.	FIRE HYDRANTS	III-8

L. M. N.	SERVICE INSTALLATIONS CORROSIVE SOIL BACKFLOW PREVENTION	III-8 III-9 III-9
	-DESIGN CRITERIA FOR RECYCLED WATER DISTRIBUTION SYSTEMS	
A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P.	SYSTEM DEMAND CRITERIA SYSTEM ANALYSIS RECYCLED WATER PIPELINE SIZING CRITERIA RECYCLED WATER PIPELINE LOCATION CURVE DATA OTHER UTILITIES RECYCLED WATER PIPELINE MATERIALS VALVES COMBINATION AIR VACUUM AND AIR RELEASE VALVES BLOWOFF VALVE ASSEMBLIES NON-POTABLE HYDRANTS SERVICE INSTALLATIONS CORROSIVE SOIL AND PIPE IDENTIFICATION BACKFLOW PREVENTION RECYCLED WATER FOR ON-SITE NON-RESIDENTIAL SITES RECYCLED WATER FOR ON-SITE RESIDENTIAL DUAL-PLUMBED HOMES	IV-1 IV-2 IV-3 IV-3 IV-4 IV-4 IV-5 IV-5 IV-5 IV-6 IV-6 IV-6 IV-6 IV-7 IV-7 IV-7
Exhibi Exhibi	 t IV-1 – Recycled Water On-Site Design and Construction Standards for Non-Residential Sites t IV-2 – Recycled Water On-Site Design and Construction Standards for Residential Dual Plumbed Homes DESIGN CRITERIA FOR SEWER SYSTEM FACILITIES 	,
A. B. C. D. E. F. G. H. I.	SYSTEM FLOW RATE CRITERIA SEWER PIPELINE SIZING GENERAL CRITERIA FOR MATERIALS AND INSTALLATION GENERAL CRITERIA FOR SEWER FACILITY LOCATION GENERAL CRITERIA FOR LIFT STATIONS AND INVERTED SIPHONS GENERAL CRITERIA FOR BACKWATER VALVES GENERAL CRITERIA FOR MANHOLES GENERAL CRITERIA FOR SERVICE LATERALS GENERAL CRITERIA FOR GREASE INTERCEPTORS	V-1 V-2 V-4 V-5 V-6 V-6 V-7 V-8
A.	- POTABLE WATER, RECYCLED WATER, AND SANITARY SEWER SYSTEM FACILITY CONSTRUCTION CONSTRUCTION STEPS	VI-1
B.	CONSTRUCTION STEP DETAILS	VI-1

Exhibit VI-1 – Sewer Mains and Appurtenances Construction Inspector Duties/Inspection Checklist Exhibit VI-2 – Water Mains and Appurtenances Construction Inspector Duties/Inspection Checklist

SECTION VII – TECHNICAL SPECIFICATIONS

- VII-1 PIPELINE TECHNICAL SPECIFICATIONS
- VII-2 DISINFECTION OF PIPING
- VII-3 GATE VALVES

- VII-4 BUTTERFLY VALVES
- VII-5 FIRE HYDRANTS
- VII-6 AIR RELEASE AND VACUUM VALVES

SECTION VIII – POTABLE WATER STANDARD DRAWINGS

SECTION IX – NON-POTABLE WATER STANDARD DRAWINGS

SECTION X – SEWER STANDARD DRAWINGS

SECTION XI – APPROVED MATERIALS