

## **List of Revisions and Date, in Reverse Order**

Section V.G.8 (1/13/11), Added “The freeze protection system shall not impede access to test ports, valves, or name plate, and shall not trap moisture against the backflow preventer (to avoid corrosion).”

Appendix F (1/11/11) Edited disclaimer at bottom of page

Sections V.C.3, VI.C.3, VII.B.2.j, and VII.C.2.d (6/16/10) Added specification for pavement over GRU utility lines

Revised Standards to use 2008 ISO Fire Flow versus 1974, included ISO Guide and Worksheet in Appendices (Appendix E) (3/1/10)

Revised Appendix B, Contractor Responsibilities, Water, Item 2, and Wastewater, Item 5 (1/25/10)

Added Tree Separation Guidelines for development within the Gainesville city limits (9/3/09), Appendix C and relevant construction details.

Corrected notes b and p in Section III.C.20 (8/31/09)

Added Appendix K, GRU Private Lift Station Checklist (7/23/09)

Section VII.B.2.h (7/23/09) Added requirement for 6’ diameter manholes when depth 20’ or more.

Appendix A, Sufficiency Review Checklist, Note 5 (Revised 6/16/09) Revised requirements for Fire Flow Demand Calculations.

Section V.F.4, 5, and 6 (Revised 6/16/09) Revisions to fire flow requirements.

Potable Water Construction Details, Page W-8.4 (Revised 4/17/09)

Reclaimed Water Construction Details, Page RCW-6.1 (Revised 4/17/09)

Appendix F (Revised 1/23/09) Data Request Form revised.

Section V.E.5 (Revised 1/9/09) changed 8 – 12 dwelling units per acre to four or more.

**The following revisions were made to the GRU Water, Wastewater, and Reclaimed Water Design Standards and Construction Details between the initial online publication date of July, 2007, and December, 2008:**

**System Design Standards**

Page 4: Section III.C.3 (Revised scale to 1"= 40')

Page 5: Section III.C.10 (Added requirement to show clean-outs and meters on allocation)

Page 6: Section III.C.20.a – m (Revised Utility Construction Notes)

Page 7: Section III.C.22 (Included a list of the crossing details required)

Page 8: Section III.C (Added angle of crossing requirement between utilities: Numeral 28 in 2008 version)

Page 12: Section V.C.1 (Added easement width requirement)

Page 12: Section V.D.1 (Changed Contractor for Developer)

Page 12: Section V.D.1.a – g (Revised water meter yoke assembly policy and procedure)

Page 13: Section V.D.7 (Revised)

Page 13: Section V.D.11 (Clarified meter location)

Page 16: Section V.E Table E.18 (Removed PVC from table and changed DIP reaction distance for pipes of 4" and 6" in size, added explanatory note)

Page 17: Section V.F.3 (Revised fire hydrant distance to 500 feet)

Page 21: Section VI.C.1 (Added easement width requirement)

Page 23: Section VI.E Table E.13 (Removed PVC from table and changed reaction distances for pipes of 4" and 6" in size, added explanatory note)

Page 25: Section VII.B.2.a (Added easement width requirement)

Page 28: Section VII.C.2.a (Added easement width requirement)

### **Potable Water Construction Details**

Page: W – 2.8 (Added explanatory note)

Page: W – 2.9 (Added explanatory note, included restrain requirements to branches of a tee having a valve)

Page: W – 3.3 (Added socket clamp and bolts, included labels)

Page: W – 6.2 (Moved reducer out from under pavement)

Page: W – 8.0 (Labeled meter end connector, modified the materials table, expanded explanatory note)

Page: W – 8.4 (Added Underground Backflow Preventer Detail)

Page: W – 10.4 (Clarified when to use alternate watermain crossing, added DIP as an option for the side piping)

Page: W – 10.5 (Added Sheetpile Detail)

Page: W – 10.6 (Added Tree Separation with Bio Barrier Detail)

### **Reclaimed Water Construction Details**

Page: RCW – 2.8 (Added explanatory note, revised feet of cover required)

Page: RCW – 2.9 (Added explanatory note, included restrain requirements to branches of a tee having a valve, revised feet of cover required)

Page: RCW – 9.1 (Added Sheetpile Detail)

Page: RCW – 9.2 (Added Tree Separation with Bio Barrier Detail)

### **Wastewater Construction Details**

Page: WW – 9.2 (Added Sheetpile Detail)

Page: WW – 9.3 (Added Tree Separation with Bio Barrier Detail)

### **Lift Station Construction Details**

Sheet No.: 2A (Added extension arm details and barbed-wire to the chainlink gate and fence, changed the chain link fabric of the fence)

Sheet No.: 2B (Added extension arm details and barbed-wire to the chainlink gate and fence, changed the chain link fabric of the fence)

Sheet No.: 3A (Added the vent location on the Locking Wetwell and Valve Vault Hatch Door Orientation Detail, removed the trust blocks on the Discharge Piping Connection detail)

Sheet No.: 3B (Added the vent location on the Locking Wetwell and Valve Vault Hatch Door Orientation Detail, removed the trust blocks on the Discharge Piping Connection detail)

Sheet No.: 6 (Modified the wetwell vent detail to reflect the change in position)

### **Appendix A: Plan Review Application & Sufficiency Review Checklist**

Plan Review Application (Modified the W/WW Engineering Sufficiency Review Checklist)

Checklist used by the Water/Wastewater Engineering department during plan review (Added)

Revised potable water demand calc requirements and notes required on Plan Submittal

### **Appendix D: Utility Agreement Forms**

GRU Force Main Rebate Calculations (Added the lift Station Peaking Factor)

GRU Lift Station Rebate Calculations (Added the lift Station Peaking Factor)

GRU Water & Wastewater System Oversizing Interest Cost Summary Sheet (Added)

Added note for inspector to inspect mechanical joint restraint

### **Appendix F: GRU Utility Data Request Form**

GRU Utility Data Request Form (Added fire flow to the utility data requested, and included the time frame for fire flows completion)

Revised to include modifications made to FDOT's checklist