

**CITY OF AUSTELL  
DESIGN AND CONSTRUCTION STANDARDS**

**TABLE OF CONTENTS**

**Introduction**

Purpose..... i

**Section 1: Administrative**

Administrative Procedures..... 1-1  
Land Disturbance Permit ..... 1-1  
Project Approval Procedure..... 1-2  
Project Construction..... 1-6  
Project Acceptance..... 1-8  
“As-Built” Drawings..... 1-11  
Maintenance Requirements..... 1-11  
Performance Bonding Requirements ..... 1-13

**Section 2: Streets and General Infrastructure**

Street Plan/Profile Sheets..... 2-1  
Streets..... 2-4  
Roadway/Lane Widths..... 2-5  
Improvements Along State Highways ..... 2-6  
Superelevation and Run-Off ..... 2-6  
Unimproved Road..... 2-6  
Intersection Design ..... 2-7  
New Proposed Streets ..... 2-8  
Cul-De-Sacs ..... 2-10  
Minimum Centerline Offsets and Intersection Separation..... 2-11  
Street Grades and Design Speeds ..... 2-11  
Vertical Alignment..... 2-12  
Horizontal Alignment ..... 2-12  
Pavement Specifications ..... 2-13  
Curbs and Gutters ..... 2-13  
Subgrade Preparation ..... 2-14  
Signing and Striping ..... 2-15  
Street Lights ..... 2-15  
Street Names and Addresses ..... 2-15  
Major Thoroughfares ..... 2-18  
General Access..... 2-21  
Access from Thoroughfare Streets..... 2-21  
Access Limitations for Development Adjacent to Thoroughfares ..... 2-22  
Service Drives..... 2-23

Median Openings ..... 2-23

Building Setbacks Adjacent to Thoroughfares ..... 2-24

Non-Residential Driveway Standards ..... 2-25

Acceleration/Deceleration Lane and Roadway Improvements Along Existing Streets ..... 2-26

Left Turn Design Guidelines ..... 2-27

General Design Requirements for Off-Street Parking Facilities ..... 2-27

Functional Elements of On-Site Circulation System ..... 2-30

Sidewalks and Pathways ..... 2-30

General Sidewalk Requirements ..... 2-30

General Pathway Requirements ..... 2-31

Standards for Lighting ..... 2-33

Tree Preservation and Replacement Standards ..... 2-33

**Section 3: Water and Sanitary Sewer**

General Design Requirements (Water) ..... 3-2

Design Criteria and Standards (Water) ..... 3-3

General Design Requirements (Sanitary Sewer) ..... 3-6

Material Specifications (Water) ..... 3-11

**Section 4: Stormwater and Floodplain Management**

Stormwater Design Standards ..... 4-1

Floodplain Management ..... 4-4

Information to be Shown on Grading Plans ..... 4-6

Information to be Included in Stormwater Management Plans ..... 4-8

Construction Standards ..... 4-10

Construction Along Streets and Streams ..... 4-22

Detention and Treatment of Runoff ..... 4-27

Structural Best Management Practices ..... 4-28

Watershed Protection District ..... 4-30

**Section 5: Erosion, Sedimentation, and Pollution Control**

Sediment ..... 5-1

Streams ..... 5-2

Information to be Shown on Erosion, Sedimentation, and Pollution Control Plan ..... 5-4

**Section 6: Plats, Record Drawings, Lots, Phased Development, and Easements**

Preliminary Plat ..... 6-1

Final Plat ..... 6-10

Record Drawings ..... 6-22

Phased Development ..... 6-24

Lots ..... 6-24

Dedication of Right-of-Way and Easements ..... 6-25

**Section 7: Standard Details**

Detail A4	Special Detail; Detectable Warning Surface Truncated Dome Size, Spacing and Alignment Requirements
Detail 80	Utility Standard
Detail 80A	Utility Standard; Local Urban Street
Detail 80B	Utility Standard; Private Urban Alley
Detail 81-A	Utility Locations Plan View; Local Urban Streets
Detail 100A	Typical Section Residential Street
Detail 100B	Residential Street Grading
Detail 102	Rural Residential Street
Detail 103	Intersection Landing Requirements
Detail 104A	Typical Residential Cul-De-Sac
Detail 104B	Typical Offset Cul-De-Sac
Detail 104C	Bubble Cul-De-Sac
Detail 106	Concrete Curbs, Medians
Detail 107	Street Sign Base
Detail 108	Stopping Sight Distance Requirements
Detail 109	Obstructing Visibility at Intersections
Detail 110	Street Barricade
Detail 113	Sidewalks
Detail 114	Off Street Parking
Detail 116	Commercial Driveway Requirements
Detail 116R	Residential Driveway Standard
Detail 120	Pathways
Detail 150	Traditional Neighborhood Development (TND) Typical Section
Detail 401A	Acceleration and Deceleration Lanes
Detail 401B	Intersection Sight Distance
Detail 401C	3-Lane Urban Typical Section
Detail 401D	4-Lane Divided 20' Median
Detail 401E	5-Lane Urban
Detail 401F	Left Turn Lane
Detail 401P	Pavement Markings
Detail 401R	Raised Pavement Markers
Detail 416-1	Tree Planting
Detail 416-2	Tree Anchoring (Type A)
Detail 416-3	Tree Anchoring (Type B)
Detail 416-4	Tree Anchoring (Type C)
Detail 416-5	Tree Anchoring (Type D)
Detail 416-6	Tree Planting in Parking Lots
Detail 416-7	Tree Protection Fence
Detail 1040A/V1860	Standard Detail for Manhole Cover for Stormwater Management
Detail 02235-1	Steel Casing
Detail 02270-1	Sediment Barrier (Silt Fence)
Detail 02270-2	Sediment Barrier (Staked Hay Bale)
Detail 02270-3	Inlet Sediment Trap

Detail 02270-4A	Curb Inlet Filter Trap (Catch Basin - In Line)
Detail 02270-4B	Curb Inlet Filter Trap (Catch Basin - In Sag)
Detail 02270-5	Check Dam
Detail 02270-6 (A)	Channel Stabilization (Gabion)
Detail 02270-6 (B)	Channel Stabilization (Rip-Rap)
Detail 02270-10(A)	Temporary Stream Crossing
Detail 02270-10(B)	Temporary Stream Crossing
Detail 02270-11	Diversion (Piped)
Detail 02270-12	Diversion (Pumped)
Detail 02270-13(A)	Engineered Diversion Structure (Sequence One)
Detail 02270-13(B)	Engineered Diversion Structure (Sequence Two)
Detail 02270-13(C)	Engineered Diversion Structure (Section AA)
Detail 02270-15	Rock Filter Dam
Detail 02270-16	Construction Exit
Detail 02270-20(A)	Disturbed Area Stabilization (With Mulching)
Detail 02270-20(B)	Disturbed Area Stabilization (With Temporary Seeding)
Detail 02270-20(C)	Disturbed Area Stabilization (With Permanent Vegetation)
Detail 02270-20(D)	Disturbed Area Stabilization (With Sodding)
Detail 02270-21	Disturbed Area Stabilization Application Table
Detail 02270-22	Matting and Blankets
Detail 02510-1	Driveway Replacement
Detail 02510-2	Concrete Trench Cap and Asphalt Pavement Trench Patch
Detail 02510-3	Concrete Trench Cap and Asphalt Overlay
Detail 02510-5	Graded Aggregate Base/Asphalt Binder/Asphalt Surface Pavement Replacement
Detail 2510-06	Type "B" Asphalt Binder Trench Cap (For Locations Subject to Subsequent Milling/Profiling and Resurfacing)
Detail 02713-1	Water Main Trench Detail
Detail 02713-2	Fire Hydrant Installation (Subdivision Standard)
Detail 02713-3	Fire Hydrant Installation (Roadway Standard)
Detail 02713-4	Valve Installation
Detail 02713-5	Concrete Valve Marker
Detail 02713-6	Line Abandonment at Valve
Detail 02713-7	Valve Abandonment
Detail 02713-8	Water Line Valving at Intersection
Detail 02713-9(B)	Dead-End Fire Hydrant Installation (New Installations)
Detail 02713-11(A)	Residential Cul-De-Sac Copper Waterline Sizing with Fire Hydrant
Detail 02713-11(B)	Residential Cul-De-Sac Copper Waterline Sizing without Fire Hydrant
Detail 02713-11(C)	Curb Stop Valving for 1" Copper Water Main
Detail 02713-11(D)	Curb Stop Valving for 1½" Copper Water Main
Detail 02713-12(A)	Thrust Blocking
Detail 02713-12(B)	Thrust Block Dimensions
Detail 02713-12(C)	Thrust Restraint: Concrete Collar with Rodding System
Detail 02713-13	Water Meter Location for Subdivision (Typical Plan)
Detail 02713-14A	¾" Water Meter Installation (Typical Section)

Detail 02713-14B	1" Water Meter Installation (Typical Section)
Detail 02713-14C	¾" and 1" Water Meter Box & Lid Detail
Detail 02713-23	¾" thru 10" Meter Installation Information
Detail 02713-30	Water Main in Street Installation
Detail 02713-31	Water Main in Street Installation
Detail 02713-32	Valve Raising Out of Pavement
Detail 02713-33	Valve Raising in Street After Repaving
Detail 02713-42	New Domestic/Irrigation Combination Meter with Back Flow Prevention Device Installation Developer Installed
Detail 02713-50	Illustration of Typical Residential Water Supply
Detail 02722-1	Sewer Trench Detail
Detail 02722-2	Sewer Service Connection
Detail 02722-3	Dry Sewer
Detail 02722-4A	Utility Tracer
Detail 02722-4B	Sewer Service Utility Tracer
Detail 02722-4C	Force Main Marker
Detail 02722-10	Sanitary Sewer Service Cleanout Assembly Installation on an Existing 4" Service Line
Detail 02722-11	Sanitary Sewer Service Cleanout Assembly Installation on an Existing 6" Service Line
Detail 2722-30	Sewage Backwater Valve
Detail 03410-1	Standard Manhole (<20 Depth)
Detail 03410-2	Standard Manhole Frame and Cover Installation
Detail 03410-3	Shallow Manhole (<4' - 6" Depth) (Section View)
Detail 03410-4	Doghouse Manhole
Detail 03410-5	Deep Manhole (>20 Feet Manhole)
Detail 03410-6	Vented Manhole
Detail 03410-7	Outside Drop Connection
Detail 03410-8	Inside Drop Manhole Connection
Detail 03410-9	Manhole Raising In Pavement
Detail 03410-10	Manhole Raising Out of Pavement
Detail 03410-11	Standard Manhole Frame and Cover
Detail 03410-12	Watertight Manhole Frame and Cover
Detail 3410-13	Standard Storm Drain Cover - Chattahoochee River
Detail 03410-20(A)	Grease Trap
Detail 03410-20(B)	Non-Food Preparation Dumpster Trap
Detail 03410-30	Manhole Frame and Cover Replacement on Existing Manhole Out of Pavement
Detail 03410-31	Manhole Raising For Existing Manhole on Easement
Detail 03410-32	Raising Brick Manhole With Precast Section

**Section 8: Ordinances and Development Forms**

Article II. Section 5-20. Floodplain Management and Prevention ..... 8-1

Article VI. Section 5-87. Conservation Subdivision / Open Space..... 8-28

Article VI. Section 5-79. Illicit Discharge and Illegal Connection ..... 8-34

Article VI. Section 14-86. Water Supply Watershed Protection..... 8-43

Article VII. Section 5-91. Stream Buffer Protection ..... 8-48

Article VII. Section 14-99. Litter Control ..... 8-58

Article III. Section 5-46. Soil Erosion, Sedimentation, and Pollution Control..... 8-61

Article VIII. Section 5. Post-Development Stormwater Management for New  
Development and Re-Development..... 8-80