

*Right of Way*  
*Construction Standards*  
*and*  
*Specifications*  
*for construction of*  
*Utilities*

*in*

*Rolla, Missouri*

*Prepared by*

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# **RIGHT-OF-WAY (ROW) CONSTRUCTION STANDARDS AND SPECIFICATIONS**

## **1.0 General Requirements**

1.1 All construction activities within the public Right-of-Way (ROW) shall comply with these standards, applicable City ordinances, and referenced specifications.

1.2 Contractors and utility companies are responsible for restoration, documentation, and warranty of all work performed.

1.3 No more than two active ROW permits shall be allowed per contractor at one time unless otherwise approved by the Right-of-Way Manager (ROWM) or Public Works Director (PWD).

1.4 Any appeals for relief from the standards and specifications shall be made in writing to the PWD.

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## **2.0 Revegetation and Erosion Control**

### **2.1 Seeding and Mulching**

- Disturbed areas must be reseeded with native or existing grasses, or other approved vegetation, to prevent erosion.
- Mulch shall be applied to protect seeds and retain moisture.

### **2.2 Erosion Control Measures**

- Install silt fences, sediment barriers, or erosion control blankets to prevent runoff and sedimentation into waterways.
- Projects disturbing more than one (1) acre require a Land Disturbance Permit.

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## **3.0 Surface Restoration**

### **3.1 Pavement Repair**

- Disturbed roads or sidewalks shall be restored within 7 calendar days per City Standard 100.
- Pavement must be restored to equal or better condition, including curb and ADA-compliant features.
- Minor asphalt patching will be completed by the City.

### **3.2 Driveway and Access Restoration**

- Driveways and access points shall be restored to original condition per City Standards 212 & 213.
- Restoration shall minimize disruption to property owners.

### **3.3 Excavation Recording**

- Any excavation requiring asphalt patching must be documented and submitted to the ROWM.

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## **4.0 Notification and Coordination**

### **4.1 Advance Notice**

- Utility companies must provide advance notice to local authorities and affected property owners before construction.
- Notification must be provided by at least two methods, one of which shall be door hangers.

### **4.2 Coordination with City**

- Utility companies must coordinate with the Public Works Department to align restoration efforts with other projects and ensure compliance.

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## **5.0 Construction Standards**

### **5.1 Craftsmanship**

- Conduits and vaults shall be plumb, aligned, and sealed against water intrusion.
- Pull boxes, splice vaults, and handholes must be flush with final grade and level with adjacent surfaces.
- All splices shall use industry-approved sealed connectors; slack loops shall be neatly stored in vaults or stored on span with "horseshoe" style loops. The "horseshoe" loops shall be reviewed and approved by the ROWM prior to installation.

### **5.2 Tracer Wire**

- All conduits shall include jacketed No. 14 AWG solid copper tracer wire.
- Tracer wire in pull boxes shall include an extra 6 feet, capped, not bonded to ground, and labeled "TRACER."

### **5.3 Backfilling and Compaction**

- Trenches shall be backfilled in 6-inch lifts, compacted to 95% of maximum dry density per ASTM D698.
- Backfill materials shall match native soils unless otherwise approved.

#### **5.4 Pavement Restoration**

- Restoration shall comply with City Standards 102 and 103.

#### **5.5 Turf and Landscape Areas**

- Disturbed turf shall be regraded, receive a minimum of 4 inches of topsoil, and be reseeded with existing grass type.
- Non-residential areas shall use MoDOT-approved seed mix.
- Straw mulch shall be applied at 2 tons/acre and mechanically crimped or tacked.
- Restoration must be completed within 30 days of installation.

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## **6.0 Traffic Control and Safety**

- 6.1 All work shall conform to the **MUTCD (Manual on Uniform Traffic Control Devices)**.
- 6.2 Safe pedestrian access must be maintained at all times. Temporary ramps shall comply with ADA slope requirements.
- 6.3 Unsafe work zones must be repaired immediately.

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## **7.0 Inspection and Approval**

### **7.1 Post-Restoration Inspection**

- Contractors must request inspection by Public Works upon completion.

### **7.2 Final Approval**

- Restoration is complete only upon written approval from Public Works.

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## **8.0 Final Inspection and Warranty**

- 8.1 Contractor must notify the City within three (3) days of restoration completion for final inspection.
- 8.2 All ROW restoration carries a **three-year warranty** covering settlement, erosion, or utility

conflicts.

8.3 A performance bond may be required based on project scope.

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## 9.0 As-Built Documentation

9.1 Contractors must submit **GPS-located as-built drawings** within 30 days of project completion, including:

- Locations and depths of conduits, vaults, and splices.
- Material types and cable capacities.
- Restoration methods and materials used.

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## 10.0 Pull Boxes

10.1 Pull boxes must meet **ANSI/SCTE 77** standards.

<b>Tier Load Rating (lbf)</b>	<b>Common Use Case</b>
5 5,000	Pedestrian areas only
8 8,000	Non-deliberate traffic (e.g., grass shoulders)
15 15,000	Light vehicular traffic
22 22,500	Standard roadways
35 35,000	Truck traffic / heavy use
45 45,000	Airports / loading docks

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## 11.0 Utility Separation and Depth

11.1 Minimum separations:

- **Vertical:** 12 inches
- **Horizontal:** 18 inches

11.2 Minimum utility depths:

- General utilities: 24 inches, in protective conduit.
- Roadway crossings: 36 inches, in protective conduit.
- Gas utility depths: determined by utility owner; contractor must verify.
- Water: 18-inch vertical and 10-foot horizontal separation from any sewer or storm line.

11.3 Slack loops must be stored **on the consumer side** of the service line, not in the ROW.

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## **12.0 ROW Utility Congestion**

12.1 Utilities must be installed to minimize congestion and maintain access for future maintenance.

12.2 Utilities creating unnecessary congestion are subject to relocation as directed by Public Works.

12.3 Handholes, vaults, and pull boxes shall be located outside pedestrian routes and ADA ramps unless otherwise approved.

12.4 Contractors must verify existing utilities through potholing or approved methods prior to installation.

12.5 Utility coordination meetings may be required for congested ROW projects.