



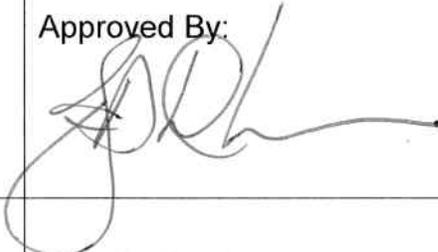
# City of Centennial

## PUBLIC WORKS DEPARTMENT ADMINISTRATIVE REGULATIONS

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### No. 2013-PW-01 WORK WITHIN THE RIGHT-OF-WAY

Effective: June 3, 2013

Promulgated By: 	Approved By: 
Wayne Reed, AICP, Deputy City Manager and Director of Public Works Department	John H. Danielson City Manager



# Contents

<b>1.0 Authority and Purpose</b>	1
<b>2.0 Definitions</b>	1
<b>3.0 Permit Process</b>	
3.1 Applicability	2
3.2 Contact Information	3
3.3 When a Permit is Required	3
3.4 Fees	4
3.5 Application Information	4
3.6 Emergency Work	5
3.7 Contractor License and Bond Requirements	5
3.8 Permit Amendments	5
3.9 Permit Extensions	5
3.10 Notice of Violation	6
3.11 Completion Inspection	6
3.12 Final Inspection	6
3.13 Acceptance	6
3.14 Warranty	6
3.15 Warranty Inspection	7
3.16 Appeals Procedure	7
<b>4.0 Permit Conditions</b>	
4.1 Duration of Permit	7
4.2 Terms and Conditions	7
4.3 Work Hours	11
<b>5.0 Permit Standards</b>	
5.1 Grading, Erosion and Sediment Control (GESC)	11
5.2 Construction	12
5.3 Traffic Control	18
<b>6.0 Pavement Restoration</b>	
6.1 Permit Fee	19
6.2 Fee Determination	20
6.3 Fee Schedule	20
6.4 Mill and Overlay instead of Pavement Restoration Fee	20
6.5 Pavement Age Map	21
<b>Appendices</b>	
Appendix A - Centennial Right-Of-Way Permit Fees	22

## 1.0 AUTHORITY AND PURPOSE

These Administrative Regulations are promulgated under the authority of the City of Centennial Ordinance No. 2008-O-25 for the purpose of:

- Implementing Ordinance No. 2008-O-25.
- Establishing standards and procedures to ensure that persons who engage in Construction Activities or Maintenance Activities within the public rights-of-way which are under the jurisdiction of the City of Centennial perform such work in a competent, safe, and orderly fashion.
- Issuing Right-of-Way Permits to protect the public's investment and prevent or address the premature degradation of public streets and other infrastructure.
- Ensuring that persons working in the public right-of-way have the knowledge, competence, and resources needed properly to perform the work for which they are permitted.

All previously issued policies and procedures dealing with street cuts and traffic control, including but not limited to Public Works Department Administrative Regulations No. 2009-PW-01 and No. 2011-PW-01, are hereby repealed and replaced by these Public Works Department Administrative Regulations.

## 2.0 DEFINITIONS

As used in these Administrative Regulations, the following words and phrases are defined as follows:

**Administrative Regulations or Regulations** shall mean the current Public Works Administrative Regulations for Work within the Right-of-Way.

**Approved** shall mean by the Director of Public Works or Designated Representative.

**ATSSA** shall mean American Traffic Safety Services Association.

**CDOT** shall mean the Colorado Department of Transportation

**City** shall mean the City of Centennial, a Colorado home rule municipality.

**Construction Activities** shall mean construction, excavation, repair, demolition or any other work within the public right-of-way that requires repairs to street pavement, curb, gutter, sidewalk, roadside vegetation or other improvements. Also see *Maintenance Activities* definition.

**Construction Standards** shall mean the most current edition of the Arapahoe County Infrastructure Design and Construction Standards, except where changed or modified in the Permit Standards section of these Regulations, or the most current edition of the SEMSWA Grading, Erosion, and Sediment Control Manual, as applicable. The City of Centennial Infrastructure Design and Specifications Manual will take precedence over the Arapahoe County standards when they are implemented.

**Designated Representative** shall mean the Inspector.

**Director** shall mean the Public Works Director of the City or his or her designee.

**Entity** shall mean any contractor, subcontractor, Utility, or other person(s), firm(s), corporation(s) or other entity seeking to perform work within City rights-of-way.

**GESC Permit** shall mean a Grading, Erosion and Sediment Control permit issued by Southeast Metro Stormwater Authority.

**Holiday** shall mean a legal holiday recognized by the City on which the City offices are closed.

**Infrared Patching** shall mean any pavement repair technology that involves reheating of the existing asphalt pavement and blending of the asphalt patching material that results in the appearance of a seamless patched or repaired area of the pavement.

**Inspector** shall mean the City's Right-of-Way Permit inspector and the Director's Designated Representative.

**Legal Parking Lane** shall mean that portion of a street along the outer edges where parking is not restricted by signs or Traffic Lane.

**Maintenance Activities** shall mean maintenance work within the right-of-way of a collector or arterial street that requires traffic control for access to existing facilities or landscaping, including but not limited to manholes, vaults, cabinets, poles or irrigation systems, but which does not cause any surface or ground disturbance and therefore, does not require erosion or sediment control measures. See the General Requirements of the Permit Conditions section for sediment control requirements. Maintenance Activities shall also mean any work outside of the public right-of-way of collector or arterial streets that requires traffic control for the closure of a public collector or arterial street Traffic Lane or sidewalk. Also see *Construction Activities* definition.

**MUTCD** shall mean the Manual of Uniform Traffic Control Devices, as supplemented by the Colorado Department of Transportation.

**Permit or Right-of-Way Permit** shall mean the permit issued by the City and which is required under these Regulations to use the City right-of-way for any Construction Activities or Maintenance Activities or any traffic control.

**Permit Holder** shall mean any Entity holding a valid Right-of-Way Permit.

**SEMSWA** shall mean the Southeast Metro Stormwater Authority.

**Street Cut** shall mean an excavation or removal of pavement within any City street right-of-way.

**Subcontractors** shall mean any person, firm or corporation performing work associated with a Permit issued to another Entity.

**Traffic Lane** shall mean that portion of a street designated for vehicular travel by painted lane markings or a minimum ten (10) foot width from the center of the street, median curb or painted lane markings.

**Utility (Utilities)** shall mean a public or private Entity owning, operating and maintaining a utility within the City. Utilities are inclusive of governmental entities, special purpose districts, metropolitan districts or other entities owning, operating and maintaining infrastructure for the general benefit of the public.

**Work Days or Working Days** shall mean all days on which the City offices are open for business.

## 3.0 PERMIT PROCESS

### 3.1 Applicability

These Regulations apply to any Entity seeking to undertake Construction Activities or Maintenance Activities within a public right-of-way under the jurisdiction of the City. Such entities include, but are not limited to persons, contractors, the State and its departments and agencies, counties, municipalities, special districts, governmental and quasi-governmental agencies and Utilities, notwithstanding any exemption or exception from local approvals or requirements as may be otherwise recognized by state law.

The City's municipal departments are not required to obtain a Right-of-Way Permit for work within a public right-of-way under the jurisdiction of the City; however, work

performed by the municipal departments must be performed in accordance with all other applicable requirements of these Regulations.

A no-fee Permit is required when the contractor or service provider is performing work under a contract or agreement with the City.

### **3.2 Contact Information**

The following contact phone numbers are provided for the convenience of the applicant or Permit Holder:

- Utility Notification Center of Colorado (UNCC) utility locates: Call 811 before you dig.
- Sheriff's Department Non-Emergency Number: 303-795-4711
- Public Works Department
  - 24-hour City Call Center: 303-325-8000
  - Right-of-Way Permit and license counter: City Civic Center, 13133 E. Arapahoe Rd, Centennial, CO 80112, 303-325-8000
  - City Website: [www.centennialcolorado.com](http://www.centennialcolorado.com): Click on City Services and then Public Works
- SEMSWA: 303-858-8844

### **3.3 When a Permit is Required**

#### **3.3.1 Construction Activities**

- a. A Permit is required for each project where Construction Activities (see Definitions) occur within the City right-of-way.
- b. A Permit is required when the work requires grading, erosion and sediment controls.
- c. Phased projects or work areas that are geographically separated from each other may require separate permits for the phases or areas, when directed by the Inspector.

#### **3.3.2 Maintenance Activities**

- a. A Permit is required when Maintenance Activities (see Definitions) occur in the right-of-way of a collector or arterial street or require a lane or sidewalk closure in such right-of-ways. Collector and arterial street classifications can be found on the Public Works Right-of-Way Permits page on the City website or by contacting the Right-of-Way Permit counter at 303-325-8000.
- b. A Permit for Maintenance Activities is not required under the following conditions:
  1. The work is limited to local streets, no more than one Traffic Lane is obstructed and all appropriate traffic control measures are in place for both pedestrians and vehicles. The classification of any street can be confirmed by contacting the City's Call Center at 303-325-8000 or by the map found on the Public Works Right-of-Way Permits page on the of the City website, [www.centennialcolorado.com](http://www.centennialcolorado.com).
  2. The work, including traffic controls devices, is entirely within a Legal Parking Lane of a collector or arterial street. Loading or offloading

vehicles or equipment into a Traffic Lane or obstruction of Traffic Lane is prohibited without a Permit.

### 3.3.3 Subcontractors

Subcontractors are authorized to perform work under the Permit provided that they are listed on the Permit or are added to the Permit prior to starting work. Subcontractors must hold a valid contractor's license with the City of Centennial (see Paragraph 3.7.1).

## 3.4 Fees

### 3.4.1 Permit Fees

Permit fees shall be paid in accordance with the fee schedule, **Appendix A** to the Regulation, prior to issuance of a Permit. The fee schedule can also be obtained at the Right-of-Way Permit and license counter: City Civic Center, 13133 E. Arapahoe Rd, Centennial, CO 80112, 303-325-8000 or from the Public Works Right-of-Way Permits page on the of the City website, [www.centennialcolorado.com](http://www.centennialcolorado.com).

### 3.4.2 Refunds

No refunds shall be issued on any Permit fees paid without approval of the Director. The permit base fee will be charged for refunds. Permit Holders may receive a credit for future Permits when there is a reduction in the work by more than 5% or cancellation of the Permit.

## 3.5 Application Information

3.5.1 Permit applications can be obtained at the Right-of-Way Permit and license counter: City Civic Center, 13133 E. Arapahoe Rd, Centennial, CO 80112, 303-325-8000 or from the Public Works Right-of-Way Permits page on the of the City website: [www.centennialcolorado.com](http://www.centennialcolorado.com).

### 3.5.2 Submittal Requirements

- a. Completed Permit application with estimated quantities for fee calculations.
- b. Construction plans or sketch plan showing work location street(s), work address or nearest intersecting street(s), street names, medians, ditch line, curb, gutter and sidewalk, approximate easement and property lines, existing and proposed utilities, dimensions and north arrow.
- c. Grading, erosion and sediment control information. A GESC Permit from SEMSWA may be required. See Section 5.1 for additional information.
- d. New culvert locations must be approved by SEMSWA prior to approval of a City Permit to construct a new culvert in a new location.
- e. Traffic control plan or MUTCD plan number. Street closure plans must be submitted for approval. See Section 5.3 for additional information.
- f. New driveway locations require approval by the City Traffic Engineer prior to approval of a City Permit to construct a new driveway in a new location.

### 3.5.3 Processing Time

The Director will not unreasonably withhold the issuance of a Permit and shall act on all completed Permit applications within a reasonable time. An Entity shall allow up to fourteen (14) calendar days to process a permit application, except for projects which involve a collocation opportunity (see Section 4.2.1), which may require up to thirty (30) calendar days to process.

#### 3.5.4 24-hour Contact Personnel

The Permit Holder shall provide the name and phone number of a contact person who is available on a 24-hour basis in the event the City becomes aware of an unsafe condition that warrants immediate attention. The contact information shall be updated immediately whenever a change occurs.

### 3.6 Emergency Work

Permits for emergency repairs must be obtained within two (2) Working Days following the date the emergency repairs were undertaken. See Section 4.2.3, for emergency work notification requirements.

### 3.7 Contractor License and Bond Requirements

3.7.1 Any Entity proposing to perform work as an owner, contractor or subcontractor under a Right-of-Way Permit must be licensed to perform work within the City, except as provided in Section 3.7.3. Contractor licenses can be obtained at the Right-of-Way Permit and Contractor License counter: City Civic Center, 13133 E. Arapahoe Rd, Centennial, CO 80112, 303-325-8000.

3.7.2 Each licensed Entity, except governmental agencies, public utility and communications companies, water and sanitation districts and mutual companies, is required to post and maintain, during the term of any Permit, a minimum twenty thousand dollar (\$20,000) bond. Excepted Entities are required to provide the bond or a performance guarantee in a form approved by the City identifying the City as the beneficiary or secured party of the performance guarantee. An approved performance guarantee form (Letter of Responsibility and Agreement to Perform) can be obtained at the Right-of-Way Permit and Contractor License counter: City Civic Center, 13133 E. Arapahoe Road, Centennial, CO 80112, 303-325-8000.

3.7.3 In accordance with City of Centennial Municipal Code, Chapter 6, Article 3 Section 6-3-10, the requirement for a contractor license is waived for :

- a. public utility and communications companies, water and sanitation districts and mutual companies when work is performed by employees of the companies.
- b. the City, its officers, employees and agents when performing work on any public improvement.
- c. any contractor performing construction work under a contract with the City unless such contract requires licensure.

### 3.8 Permit Amendments

An amendment is required when a permit quantity increases by more than five percent (5%) or additional Construction Activities are scheduled to occur which were not contemplated at the time the Permit was originally issued by the City.

### 3.9 Permit Extensions

The duration of any Permit may be extended when approved by the Inspector. Requests for extension must be made in writing to the Inspector, a minimum of ten (10) Working Days prior to expiration of the Permit. The permit base fee will be charged for extending a Permit.

### **3.10 Notice of Violation**

A Notice of Violation (Notice) may be issued by the Inspector when a Permit is not obtained prior to starting work or work performed under the Permit is not in compliance with these Regulations. The Permit Holder shall pay a fee, in the amount shown on the Permit fee schedule, when issued a Notice. The Inspector will identify the violations or deficiencies that must be corrected. A Notice issued for working without a permit must be corrected within one (1) Work Day and other corrective actions must be initiated within three (3) Work Days and corrected within five (5) Work Days unless extensions are approved by the Inspector and included in the completion date. If the corrections are not completed by the date required on the Notice, another Notice with the associated fee may be issued by the Inspector.

The Director retains the authority to revoke any Permit for failure to comply with these Regulations or other applicable laws or regulations of the City. The Director may also revoke a contractor license, in accordance with applicable provisions of the City Municipal Code, for failure to comply with these Regulations.

Upon issuance of a Notice of Violation, the Permit Holder shall secure the site(s), provide the necessary traffic control and discontinue all non-corrective work within the public right-of-way. No further work will be allowed until the corrections are completed, additional fees are paid and the Notice of Violation is rescinded by the Inspector. Permit applications for any Entity with a Notice of Violation in effect will not be processed until the Notice of Violation is rescinded.

### **3.11 Completion Inspection**

The Permit Holder or contractor shall schedule a completion inspection with the Inspector a minimum of 24 hours in advance of leaving the site after completion of the work. Failure to schedule a completion inspection prior to leaving the site after completing the work is justification for a re-inspection fee or Notice of Violation.

The Inspector shall provide an inspection report with a written punchlist of all deficiencies, if any, that must be corrected prior to acceptance of the work for completion of the Permit. The Permit Holder shall complete the punchlist and schedule a final inspection within seven (7) calendar days, unless a written extension is approved by the Inspector. If there are no punchlist items, the completion inspection will be the final inspection.

### **3.12 Final Inspection**

If the completion inspection is not the final inspection, the Permit Holder or contractor shall complete the punchlist and schedule a final inspection within seven (7) calendar days, unless a written extension is approved by the Inspector. Failure to complete the punchlist items within the period approved by the Inspector and schedule the final inspection is justification for a re-inspection fee or Notice of Violation. If the Inspector does not accept the corrected work at the final inspection, or the work is not completed, the Inspector will assess a re-inspection fee for all future final inspections.

### **3.13 Acceptance**

Upon acceptance of the work after the final inspection, the Inspector will sign and date the Permit to indicate the start date for the warranty period.

### **3.14 Warranty**

All work performed under the Permit shall be warranted for one (1) year from the date of acceptance. During the warranty period, the Permit Holder may be notified in writing of any defective work and shall correct the defective work within 14 calendar days or the

time allowed in writing by the Inspector. The corrective work shall be warranted for one (1) year after completion. Failure to correct the deficiencies within the required time period, or obtain a written extension, is justification for a re-inspection fee or Notice of Violation.

### **3.15 Warranty Inspection**

The Inspector will send a notice of warranty inspection to the Permit Holder prior to the warranty expiration date. The notice will indicate that the work is accepted and the Permit is closed or it will include a written punchlist of deficiencies that must be corrected within 14 calendar days or the time allowed in writing by the Inspector. The Permit Holder shall notify the Inspector after the punchlist is completed. Failure to complete the punchlist within the required time period, or obtain a written extension, is justification for a re-inspection fee or Notice of Violation.

### **3.16 Appeals Procedure**

A Permit Holder may appeal to the Director in writing any decision that the Inspector renders pursuant to this Section 3.0. The Director shall render a decision on such appeal, and such decision shall be final and may not be appealed pursuant to procedures outlined elsewhere in these Regulations. The Director's decision shall be made in writing and shall be made within thirty (30) calendar days following receipt of the Permit Holder's written appeal. Unless otherwise approved by the Director in writing, no work under the Permit shall be allowed during the pendency of the appeal.

## **4.0 PERMIT CONDITIONS**

### **4.1 Duration of Permit**

4.1.1 Permits for Maintenance Activities are issued on an annual basis or by location (up to 3 locations). Annual Permits for Maintenance Activities must be renewed each calendar year. Permits issued by location (up to 3 locations) shall be in effect for 120 days from date of issuance.

4.1.2 Permits for Construction Activities shall be in effect for 120 calendar days from date of issuance.

### **4.2 Terms and Conditions**

#### **4.2.1 Collocation of City Infrastructure with Permit Holder's Infrastructure**

a. The City will review permit applications or extensions for Construction Activities involving directional boring or open trenching for collocation opportunities. Upon the City's determination that a collocation opportunity exists for a specific application or permit extension, the City shall, as a condition of the issuance of the Permit or continued validity of a Permit, direct the Entity/Permit Holder to install City conduit with tracer wire concurrent with the installation of the Permit Holder's infrastructure following the City's review and approval of all estimated costs associated with the collocation of the City conduit. The Permit Holder shall install the City conduit with tracer wire adjacent to the Permit Holder's infrastructure and within the same bore alignment. Upon installation of the City conduit, the Permit Holder (or its contractor or subcontractor) shall mark the surface of the collocation area with temporary paint along the alignment of the City's conduit and shall contact the City so that it may verify and record the location of its conduit. Permit Holder shall maintain the markings in a visible and accessible condition until the City has indicated it has no further need for the markings. The City will bear all costs associated with the collocation, including the cost of City conduit, fiber, pull

boxes, and other materials to be installed, as well as the incremental cost to the Permit Holder (or its contractor or subcontractor) to accomplish the collocation. A Permit Holder may appeal a collocation condition imposed by the City in accordance with the appeals procedure set forth in Section 4.2.1.b. of these Regulations.

b. Appeals Procedure for Collocation Condition.

1. Timely Appeal. An Entity or Permit Holder may appeal to the Director the City's decision to require collocation as a condition of any Permit. All appeals must be in writing and shall be delivered to the Director and the City Attorney's Office by the close of business of the fifteenth day after the City has imposed the collocation condition on the issuance of a Permit or continued validity of a Permit, and such collocation condition has been communicated to the Entity or Permit Holder by the City in writing.

2. Hearing Officer Appointed. If an appeal is timely filed, the Director shall, within seven (7) days of the filing of the appeal, refer the matter to the City Attorney in writing. The City Attorney shall appoint a hearing officer within thirty (30) days following receipt of the Director's written referral of the appeal. The hearing officer shall be knowledgeable regarding technical, regulatory, and other substantive requirements concerning the installation of utilities within public rights-of-way, including those practices that are reasonable and customary within the utilities industry and the municipal regulation thereof. The hearing officer shall set a hearing on the matter, which hearing shall take place within sixty (60) calendar days of the day the appeal was filed with the Director.

3. Conduct of Hearing. The hearing officer shall ensure that the City makes a record of the hearing and that all testimony is under oath. The hearing officer shall also perform those duties and functions necessary to determining the matter, including but not limited to, issuing subpoenas to compel testimony and document production, hearing all testimony, examining relevant documentary evidence, including the permit application materials and the estimated incremental costs associated with the collocation of the City conduit, and ruling on evidentiary questions. The hearing officer shall not be bound by the Colorado Rules of Civil Procedure or the Colorado Rules of Evidence and may consider any evidence reasonably calculated to assist in deciding the matter. The hearing officer shall issue a written order supported by findings of fact and conclusions of law within fifteen (15) days after the hearing concludes unless additional time is necessary to consider all relevant information.

4. District Court Review. The hearing officer's decision shall be final and is only subject to review pursuant to Rule 106(a)(4) of the Colorado Rules of Civil Procedure in an action filed in Arapahoe County District Court no later than twenty-eight (28) days after the date that the hearing officer issues the order, findings of fact, and conclusions of law.

4.2.2 Planned Construction Activity

The Permit Holder is responsible for ensuring that the Inspector is notified a minimum of two (2) Working Days prior to initiating planned (non-emergency) Construction Activities and a minimum of 24 hours in advance of each required inspection. Contact the City's 24-hour Call Center at 303-325-8000 for notifications. A re-inspection fee may be charged to the Permit Holder if the

contractor cancels a scheduled inspection or changes the work schedule without providing a minimum of four (4) hours advance notice to the Inspector.

#### 4.2.3 Planned Maintenance Activity

The Permit Holder is responsible for ensuring that the Inspector is notified no later than 4:00 pm on the Work Day preceding the scheduled commencement of planned (non-emergency) Maintenance Activities. Contact the City's 24-hour Call Center at 303-325-8000 for notifications. For Maintenance Activities involving a multiple day period, or multiple locations, a work and/or project schedule may be provided to the Inspector in lieu of prior Work Day notifications. The work and/or project schedule shall contain the location(s) of the Maintenance Activities, start date(s) and the estimated duration of the work to be performed at each site.

#### 4.2.4 Emergency Work

The Permit Holder is responsible for ensuring that the City's 24-hour Call Center at 303-325-8000 is notified upon beginning work operations in the right-of-way. The Call Center will notify the Inspector.

#### 4.2.5 Preconstruction Meeting

Permits may require a preconstruction meeting to be scheduled with the Inspector. The Inspector may require attendance by any or all of the following parties: owner, contractor, Subcontractors, project design engineer, and project design traffic engineer. The preconstruction meeting may be required to be rescheduled if any required representative fails to appear at the meeting. Starting work prior to a required preconstruction meeting is justification for a re-inspection fee or Notice of Violation.

#### 4.2.6 Work Schedule

The key schedule dates below shall be provided to the Inspector when the two-day notice is given prior to starting work, as required by Section 4.2.2 of these Regulations. Failure to inform the Inspector of changes to the schedule or inspection dates is justification for a re-inspection fee.

- Project start date.
- Estimated date of completion of subgrade preparation for paving or patching.
- Estimated start date of paving or patching restoration.
- Estimated project completion date.

#### 4.2.7 Permit Posting

- a. Construction Activities: When the work involves Construction Activities, a copy of the Permit shall be available at the site at all times when work is being performed.
- b. Maintenance Activities: When work involves Maintenance Activities, the contractor shall have a copy of the Permit or the permit number available for the Inspector to verify.

#### 4.2.8 Conflicts In Standards

All work must conform to the construction plans, sketches, and traffic control plans submitted to the City as part of the Permit application. Unless a conflict between the approved Permit and the Regulations and the Construction

Standards is noted on the Permit, the Regulations and Construction Standards will govern.

#### 4.2.9 Water Pumped onto the Street

Sediment and/or debris from water that is pumped out of structures during Maintenance Activities, or maintenance work on residential streets, shall be contained within the work area and removed from the street. Sediment shall not flow to the gutter or ditch without providing inlet protection and/or sediment control devices for containment. The contractor shall clean the street and gutters whenever sediment is pumped out of a work area. Failure to provide sediment control when sediment is discharged outside of the work area is justification for a re-inspection fee or a Notice of Violation.

#### 4.2.10 General Permit Holder Responsibilities

The Permit Holder shall be responsible for providing a 24-hour contact person in the event the City becomes aware of an unsafe condition related to the project that warrants immediate attention. If the contact person cannot be reached or refuses to agree to undertake corrective action in a timely manner, the City will proceed to perform the necessary work to remedy the unsafe condition in order to protect the public's safety. The Permit Holder shall be responsible for reimbursing the City for all of the City's reasonable expenses incurred for repairs, active traffic control, and/or other work that is necessary to remedy the unsafe condition. Failure to fully reimburse the City within ten (10) Work Days following the date on which the City provides the Permit Holder with an itemized invoice setting forth such costs is justification for a Notice of Violation.

The Permit Holder is responsible for coordinating with all Utilities and other contractors working in the same or adjacent areas.

The Permit Holder shall be responsible to ensure that all contractors and Subcontractors comply with the terms, and conditions of the Permit and these Administrative Regulations.

#### 4.2.11 Daily Cleanup, Damage and Safety

- a. Daily cleanup: Upon completion of each day's work, the permit holder is responsible for ensuring that all litter, construction debris or other materials resulting from the work is removed from the site and the site is left in a neat and orderly appearance. The street pavement and sidewalk shall be swept daily, if necessary, as determined by the Inspector for dust control and to remove mud or loose material resulting from the work.
- b. Property damage: Any damage to public or private facilities as a result of the permitted work shall be the responsibility of the Permit Holder.
- c. Safety: The Permit Holder assumes full and complete responsibility for job site conditions and the safety of all persons and property within the job site during the course of the permitted activity.

#### 4.2.12 Permanent Patching

Weather permitting, placement of the permanent patch or surface course shall be completed within seven (7) calendar days following the installation of the temporary patching, unless an extended date is submitted and approved by the Inspector.

#### 4.2.13 Site Restoration

All repairs shall cause the street and other property to be returned to a condition equal to or better than the condition prior to the work. Site restoration, to

include final street and sidewalk sweeping, vegetation and landscape restoration, pavement striping, utility locating paint and flag removal and removal of erosion and siltation controls, shall be completed within seven (7) calendar days after the work is substantially complete, unless the Permit Holder receives written approval for an extended date from the Inspector. The work is substantially complete when the major items of work on a Permit such as the repair or installation of a structure or utility are complete as evidenced by opening the street to traffic and removing materials, equipment and/or traffic controls.

#### 4.2.14 Re-inspection

Instances where a re-inspection fee may be charged include:

- a. a Notice of Violation is issued.
- b. the contractor cancels a scheduled inspection or changes the work schedule without providing a minimum of four (4) hours advance notice to the Inspector.
- c. the contractor leaves the site without scheduling a completion inspection with the Inspector after work is completed.
- d. the Inspector requires a site meeting to discuss non-compliance issues.
- e. starting work prior to a required pre-construction meeting.
- f. failure to complete site restoration work within the required time period or corrective work within the required written time period.
- g. failure to provide erosion and sedimentation controls and/or traffic controls.

### 4.3 Work Hours

- 4.3.1 Work hours are limited to 8:00 a.m. to 5:00 p.m. on residential streets.
- 4.3.2 On arterial and collector streets, work shall be performed between the hours of 8:30 a.m. to 3:30 p.m.
- 4.3.3 Permitted night hours work activity on arterial and collector streets shall begin no earlier than 7:00 p.m. and end by 6:00 a.m. on the following day.
- 4.3.4 No work is permitted on Saturday, Sunday or Holiday without prior arrangement with the Inspector and approval of the Director.
- 4.3.5 Traffic control set-up and removal shall be performed within the specified working hours, unless approved otherwise on the Permit traffic control plan. Preparations are allowed that do not interfere with vehicular or pedestrian movement or generate vehicle back-up warning horns or noise greater than the surrounding traffic level.

## 5.0 PERMIT STANDARDS

### 5.1 Grading, Erosion and Sediment Control (GESC)

#### 5.1.1 GESC Permit

SEMSWA administers the grading, erosion and sediment control program (GESC) for the City. A GESC Permit is required for projects involving land disturbance of any type, except when exempted as noted in Section 5.1.2 below. Right-of-Way Permits will not be issued to any Entity unless and until the Entity has obtained a GESC Permit, when required. Contact the SEMSWA office at 76

Inverness Drive East, Suite A, Englewood, CO 80112, 303-858-8844, for more information.

#### 5.1.2 GESC Permit Exemptions

- a. Utility installations of less than one thousand (1,000) feet in length,
- b. Land surface disturbances of less than one (1) acre,
- c. Excavations and fills of less than fifty (50) cubic yards,
- d. Exploratory drilling
- e. Dry utility directional boring in the public right-of-way with five (5) bore pits or less and not within 100' of a drainageway.

Contact the SEMSWA office or refer to the web link below for a complete listing of the exempted activities.

<http://www.semswa.org/semswagescmanual.html>

#### 5.1.3 City Permit

Permit Holders that are exempt from obtaining a GESC Permit are not exempt from providing erosion and sediment controls in accordance with the SEMSWA Grading, Erosion, and Sediment Control Manual. The Permit Holder shall provide erosion and sedimentation control measures as required by the Inspector prior to beginning land disturbance work unless the construction plans submitted for permit application provide an erosion and sedimentation control plan. Failure to provide erosion and sediment control measures is justification for a re-inspection fee or Notice of Violation.

#### 5.1.4 City Permit Requirements

Erosion and sediment control shall be provided for work where sediment could be discharged outside of the work limits or into a storm drain. Erosion and sediment controls shall be required, but not limited to, the following work:

- a. Trenching or excavation
- b. Grading
- c. Boring or tunneling
- d. Utility plowing
- e. Sediment pumped from manholes and vaults that will enter a storm drain
- f. Stockpiling excavated or backfill materials

#### 5.1.5 City Permit Exemptions

Unless otherwise directed by the Inspector, erosion and sediment control will not be required for:

- a. Pavement patching not involving excavation and/or stockpiling.
- b. Potholes and core borings.
- c. Concrete replacement not involving excavation and/or stockpiling.
- d. Hydrant flushing.

## 5.2 Construction

The most current edition of the Arapahoe County Infrastructure Design and Construction Standards shall apply to construction within the City of Centennial rights-of-way except

as modified in this section. The City of Centennial Infrastructure Design and Specifications Manual will take precedence over the Arapahoe County standards when they are implemented.

#### 5.2.1 Pavement Cutting

- a. All pavement cuts shall be in straight lines parallel or perpendicular to the street centerline. Irregular shaped cuts with more than four sides will not be allowed. Cuts within existing patched areas must be extended to the edge of the existing patched area if the proposed cut is within four (4) feet of the edge of the existing patch.
- b. All asphalt pavements shall be cut by wheel-cutting, saw-cutting, rotomilling or other method approved in advance by the Inspector which assures a straight, uniform, vertical edge for the required depth of the cut. Saw cuts extending beyond the patch limits by more than the depth of the cut may require crack sealing.
- c. All cuts in concrete pavement require saw cutting. Saw cuts through curb and gutter sections must be continuous through the base of the curb head.
- d. The minimum size of an asphalt pavement cut shall be three (3) feet by three (3) feet.
- e. The minimum width of asphalt pavement removal for concrete replacement shall be eighteen (18) inches.
- f. The contractor may initially remove less pavement than the required replacement area. The final limits of pavement removal for any pavement patch shall comply with the Regulations.
- g. Any pavement cut edge that is damaged by Construction Activities shall be cut back beyond the damage for the entire length of the cut to provide a continuously straight and vertical edge prior to patching. Damage to exposed concrete faces may require the removal and replacement of additional concrete pavement sections.
- h. Any sloughing of the excavation wall that causes undermining of the pavement cut shall require cutting the pavement back beyond the limits of undermining for the entire length of the cut prior to backfill and patching.
- i. Use of steel plate(s) to cover excavations is not permitted unless specifically authorized by the Inspector. All trenches or other excavations must be backfilled and a temporary cold mix asphalt paving surface provided at the end of each workday. The use of asphalt millings or other aggregates is not permitted. The use of hot mix asphalt paving for temporary patching is acceptable.

#### 5.2.2 Backfill and Compaction

- a. Backfill: Backfill for excavations shall be suitable excavated material, CDOT Class 6 base course material or flowable fill such as flowfill or flashfill. Excavated material shall be approved by the Inspector in writing prior to backfill.
- b. Flowable fill: Flowable fill shall be "flow fill" or "flash fill" type material with a design compressive strength between 50 and 150 psi at 28 days when tested in accordance with ASTM D4832.
- c. Compaction testing requirements: Compaction of backfill, except flowable fill, shall be provided when the patching area exceeds 500 square feet. Compaction testing on other projects will not be required when a 24-hour

advance notice is provided to the Inspector prior to backfilling. When testing is required, compaction test results shall be certified by a Colorado licensed Professional Engineer and provided to the Inspector. Backfill material shall be compacted according to the requirements of the following table:

<b>AASHTO</b>	<b>Compaction</b>	<b>Moisture Content</b>
<b>Classification</b>	<b>Percent of Maximum</b>	<b>Deviation from Optimum</b>
Clay Soils A-6, A-7	95% Min of AASHTO T-99 Standard Proctor Method	0% to +2%
Sands, Gravels, Silts A-1, A-2, A-3, A-4, A-5	95% Min of AASHTO T-180 Standard Proctor Method	-2% to +2%

- d. Compaction testing frequency: When compaction testing is required, trench backfill shall be tested at maximum depth intervals of two (2) feet and maximum length intervals of 250 feet. A minimum of one test location is required within one (1) foot of a manhole or valve box. Excavated areas, other than trenches, shall be tested at a minimum of three (3) test locations per 500 square feet. Testing frequency may be increased or decreased when directed by the Inspector in writing. Compaction test results shall be certified by a Colorado licensed Professional Engineer and provided to the Inspector prior to acceptance of the work and completion of the Permit.
- e. Test holes: Test holes, potholes for utilities or core borings less than one (1) square foot in area shall be backfilled with flowable fill or squeegee to the bottom of the pavement or six (6) inches from the pavement surface, whichever provides greater pavement patching thickness.

### 5.2.3 Permanent Patching

- a. Patch depth: The hot mix asphalt patching depth shall be equal to the existing asphalt thickness or a minimum of six (6) inches, whichever is greater.
- b. Tack: Tack coat shall be applied to the vertical face of all pavement cuts edges and milled surfaces prior to patching or placement of any asphaltic surface or base course materials.
- c. Types and limits of patching: Street Cuts with an area of 500 square feet or less and patch-back areas (see 5.2.3.d) may be patched within the limits of the pavement cut. The limits shall be approved by the Inspector prior to patching. Street Cuts in an arterial street or when the patch area is greater than 500 square feet shall be Infrared Patched or milled and overlaid to a depth of two (2) inches below the existing pavement surface and in parallel lines at a minimum distance of one (1) foot beyond the pavement cuts. When any asphalt overlay or patch edge is within two (2) feet of the lip of a cross-pan, gutter or other concrete edge, the limits of required patching or trench overlay shall be extended to the concrete edge.
- d. Patch-back: Asphalt patching (patch-back) along curb, gutter, sidewalk, crosspans, aprons or other concrete that is removed for replacement shall have a minimum width of 18 inches from the edge of the concrete. CDOT grading SX aggregate with the proper asphalt grade (see 5.2.5) may be

used for the full depth of the patch with a maximum compacted lift thickness of three (3) inches.

- e. New pavement: Streets with surface pavement (hot mix asphalt) age of 0-2 years (less than two years old) shall require Infrared Patching of the Street Cut or 2-inch milling and overlaying for the full lane width of each lane cut.
- f. Patches less than 500 SF: Areas less than 500 square feet and patch back areas for concrete replacement may use hot mix asphalt with CDOT grading SX aggregate and the proper asphalt grade (see 5.2.5) for the full depth of the patch with a maximum compacted lift thickness of three (3) inches.
- g. Patches greater than 500 SF: Areas greater than 500 square feet shall be patched as follows:  

Minimum compacted thickness of the surface course shall be two (2) inches of hot mix asphalt with grading SX aggregate and the proper asphalt grade (see 5.2.5). Maximum compacted thickness shall be three (3) inches.

Minimum compacted thickness of the asphalt base course shall be three (3) inches of hot mix asphalt with grading S aggregate and the proper asphalt grade (see 5.2.5). Maximum compacted thickness shall be four (4) inches.
- h. Test holes: Potholes for utilities, test holes and core borings less than one square foot in area shall be patched within the cored area in accordance with asphalt patching depth, tack coat and compaction requirements. Holes within 24 inches of each other shall be combined into one patch requiring milling, saw-cutting or Infrared Patching 12 inches beyond the holes.
- i. Open seams: Patch seams that open in excess of 1/8" during the warranty period shall be crack sealed.
- j. Smoothness: All pavements shall be replaced to uniform lines and grades to match the longitudinal slope of the existing pavement. When checked with a ten (10) straight edge, variations in the pavement surface shall not exceed plus or minus one-quarter ( $\pm 1/4$ ) inch.

#### 5.2.4 Temporary Patching

- a. Time limits: All pavement cuts open to traffic shall be temporarily patched until permanent patching is completed. The temporary patch shall be maintained to provide a level road surface until permanent hot mix asphalt is placed. The permanent patch shall be placed within seven (7) calendar days after temporary patching, weather permitting.
- b. Materials: Temporary patching materials shall be cold or hot mix asphalt or flowable fill material with a minimum two (2) inch depth. See Section 5.2.5 for asphalt material specifications.

#### 5.2.5 Asphalt Materials and Compaction

- a. Large or small patch areas: See Section 5.2.3 for asphalt materials when patching area is less than or greater than 500 square feet.
- b. Arterial or collector street: Surface courses shall be CDOT grading SX aggregate, PG 64-22 asphalt and 75 gyration compaction. Asphalt base course shall be CDOT grading S aggregate, PG 64-22 asphalt and 75 gyration compaction.

- c. Local or residential street: Surface and base courses shall be the same aggregates as arterial and collector streets with PG 58-22 or PG 64-22 asphalt and 75 gyrations compaction.
- d. Mix design: Hot mix asphalt mix designs shall be in accordance with CDOT Manual of Test Procedures.
- e. Cold mix material: Cold mix material shall be of a quality that does not rut or shove during the temporary period that it is in place. Unique Paving Materials (UPM) cold mix material is recommended.
- f. Tack coat material: Tack coat material shall comply with CDOT Standards and specifications for CSS-1h emulsified asphalt.
- g. Compaction testing requirements: Unless directed otherwise by the Inspector in writing, asphalt compaction testing will not be required when 24-hour advance notice is provided to the Inspector prior to patching or paving. When required, compaction test results shall be certified by a Colorado licensed Professional Engineer and provided to the Inspector. Hot mix asphalt shall be compacted to 92% - 96% of maximum density.
- h. Compaction testing frequency: When asphalt compaction testing is required by the Inspector in writing, asphalt compaction for trenches shall be tested at maximum intervals of 250 feet. A minimum of one test location is required within one (1) foot of a manhole or valve box. Patched or paved areas, other than trenches, shall be tested in maximum 500 square foot areas with a minimum of three (3) test locations per excavated area. Each asphalt lift shall be tested.
- i. Test holes: Asphalt patching for test holes and core borings shall be compacted with a pneumatic compactor (pogo stick) or other approved method.

#### 5.2.6 Concrete Pavement Replacement and Repair

- a. Pavement removal area and replacement depth: Entire jointed panels shall be replaced when a Street Cut is made within the panels. The concrete pavement shall be saw-cut to the full depth of the existing pavement. The joints shall be constructed in the same pattern as the existing pavement.
- b. Manholes and structures: When replacing concrete around a manhole, valve box or other structure that is not within an existing jointed section for the structure, the existing concrete pavement shall be cut to provide a minimum two-foot by two-foot square joint pattern that is approved by the Inspector. Replacement of the entire jointed section of the existing pavement, as stated in Section 5.2.6.a, is not required.
- c. Potholes: Potholes, test holes and core borings less than one square foot in area shall be repaired for the full depth of the concrete by placing a Quikcrete, Rapid Set or approved equal concrete repair product with a minimum 1-day compressive strength of 4,000 psi. More than one hole in a jointed section may require replacement of the jointed section when directed by the Inspector in writing.
- d. Mix design: Concrete mix design for pavement sections shall meet or exceed CDOT Class P concrete specifications and have a minimum 28 day compressive strength of 4,200 psi.
- e. Panel joints at saw-cuts: Rebar doweling is required at the saw-cut joints for all concrete pavement repairs. Provide 5/8 inch diameter, Grade 40,

epoxy coated rebar (#5 rebar) at 12 inches on centers for each side of the Street Cut. Rebar dowels shall be placed at half of the pavement depth. Rebar dowels shall be a minimum of 24 inches in length to allow for 12 inches drilled into the existing pavement and 12 inches of embedment into the new concrete pavement. Rebar dowels shall be set into the drilled holes with epoxy adhesive.

- f. Panel joints for new concrete: Provide contraction joint assemblies for panel joints in new concrete. 1-1/4 inch diameter, grade 60, epoxy coated steel dowels shall be used. Dowels shall be minimum 18 inches in length and placed at 12 inches on centers and at one half of the pavement thickness.
- g. Joint dimensions: After placement of concrete pavement, joints shall be saw-cut or tooled to a depth of ¼ of the concrete slab thickness. Maximum joint width at the surface shall be 5/16".
- h. Joint Sealant: Joints shall be sealed with gray silicone concrete pavement sealant such as Dow 888 or Dow 888-SL, or approved equal.

#### 5.2.7 Concrete Curb, Gutter and Sidewalk

- a. Standards: This section applies to concrete curb, gutter, sidewalk, crosspans, aprons, curb ramps and other types of flatwork. Construction shall be in accordance with Arapahoe County Infrastructure Design and Construction Standards unless specified otherwise in this section. Concrete pavements, cross pans, aprons and the like shall be replaced to the limits of the existing joint pattern.
- b. Saw-cutting: All concrete removal shall be saw-cut to the full depth of the concrete and continuous through the curb head.
- c. Mix design: Concrete mix design for curb, gutter and sidewalk shall meet or exceed CDOT Class D specifications and have a minimum 28 day compressive strength of 4,000 psi.
- d. Fibermesh: Fibermesh reinforcement in the quantity of 1.5 pounds per cubic yard of concrete is required.
- e. Basecourse: A minimum four (4) inch thick aggregate base course complying with CDOT Class 6 material is required. Compaction of subgrade and base course shall be inspected by the Inspector prior to placing concrete.
- f. Minimum concrete thickness:
  - 1. Crosspans and aprons – ten (10) inches
  - 2. Driveways and detached sidewalks – six (6) inches
  - 3. Combination or monolithic curb, gutter and sidewalk – six (6) inches
  - 4. Curb ramps – per Arapahoe County Standards
- g. Contraction joints: Sidewalk shall be replaced with transverse contraction joints not exceeding the width of the sidewalk. Curb or combination curb, gutter and sidewalk sections shall be replaced in full sections which are nominally ten (10) feet long. Joints shall be saw-cut or tooled to a depth of ¼ of the concrete slab thickness. Maximum joint width at the surface shall be 5/16".
- h. Expansion joints: Expansion joint material shall be placed along cuts for structures such as poles and posts.

## 5.3 Traffic Control

### 5.3.1 General

Construction Activities or Maintenance Activities that involve vehicles, material or equipment which interfere with the movement of vehicular or pedestrian traffic on any public street must have appropriate traffic control during construction. Traffic control devices and standards shall be in accordance with the most recent version of the MUTCD. Traffic control plans shall be provided when applying for a Right-of-Way Permit for Construction Activities. Traffic control for Maintenance Activities shall be provided in accordance with the requirements of this section. The contractor shall modify the traffic control plan in the field, when required by the Inspector, in order to improve traffic flow or safety.

### 5.3.2 Traffic Control for Maintenance Activities

- a. Traffic control for maintenance activities is generally considered to be "short-term stationary", "short-duration" or "mobile", as defined by the MUTCD Chapter 6G. Permit requirements are as follows:
- b. For short-term stationary (daytime work at one location for more than one hour and completed within one day) and short-duration work (work in one location for up to one hour), vehicle(s) shall have a rotating beacon/strobe light. An arrow board or arrow stick can be substituted for a rotating beacon/strobe light. A vehicle shall be augmented with arrow panels when working on arterial streets. A minimum of five (5) cones beginning at the back of the vehicle will be spaced at distances equal to the speed limit in feet for each adjacent Traffic Lane.
- c. For mobile work (continuously moving operation with short-duration stops), TA-35 for streets with more than two lanes and TA-17 for two-lane streets must be followed. Shadow vehicles must be equipped with arrow panels and proper signs. Cones and attenuators are not required.
- d. Vehicles and equipment shall not block sidewalks if pedestrians cannot safely pass around them and shall be moved from sidewalks to accommodate disabled people if necessary.

### 5.3.3 Minor Traffic Control for Construction Activities

- a. Typical application (TA) plans provided in the MUTCD, Section 6H.01, may be copied and submitted as traffic control plans when work does not involve conditions listed under Section 5.3.4 for major traffic control, such as work within an intersection or a traffic control zone that passes through an intersection.
- b. The following TA plans are typically used for Right-of-Way Permits: 1, 3, 4, 6, 15, 16, 17, 18, and 21 through 29. Where the TA plans do not apply, a separate traffic control plan will be required. Applicants are required to comply with the TA plan that is submitted.
- c. Traffic control plans for sidewalk closures are required.

### 5.3.4 Major Traffic Control for Construction Activities

A traffic control plan, including any sidewalk closures, shall be prepared by an ATSSA Certified Traffic Control Supervisor and submitted with the Permit application when one or more of the following conditions occur:

- a. The length of the traffic control zone passes through an intersection.
- b. Work occurs within an intersection.

- c. Full street closures are proposed.
- d. Detours are proposed.
- e. When required by the City Traffic Engineer.

5.3.5 Variable Message Boards and Neighborhood Information

- a. Variable Message Boards should be considered and may be required by the City Traffic Engineer for Construction Activities on arterial streets. When proposed or required, message boards will be provided a minimum of one week in advance of the start of construction.
- b. Neighborhood notification by door hangers or flyers may be required by the Inspector when Construction Activities will significantly impact neighborhood traffic. When required, door hangers or flyers will be distributed within an area designated by the Inspector a minimum of 48 hours in advance of the start of construction.
- c. The Inspector may require Permit Holders or contractors to provide news release information in significantly affected neighborhoods and meet with homeowner associations in advance of the work to obtain their input and minimize the noise, congestion and inconvenience that will occur.

5.3.6 Taper Lengths

The minimum taper lengths (L) required for Traffic Lane shall not be less than the following. Where conditions warrant, the Director reserves the right to require greater taper lengths in accordance with the project site and posted speed limits:

Street Type	Length	Speed
Residential	180 feet	30 mph
Collector	320 feet	40 mph
Arterial	500 feet	50 mph

5.3.7 After-Hours Traffic Controls

Barricades, cones, signs, or other vehicular or pedestrian traffic controls shall be taken out of service after designated working hours unless their use and application are required to ensure the safety of the traveling public. In that case, those controls shall be noted on the traffic control plan.

5.3.8 Loop Detectors

Any damage to traffic signal poles, lines and loop detectors shall be immediately reported to the City's 24-hour Call Center at 303-325-8000.

**6.0 PAVEMENT RESTORATION**

**6.1 Permit Fee**

Pavement restoration fees, as set forth in **Appendix A**, are charged in order to offset a portion of the City's direct costs incurred where the Permit Holder elects to not construct a 2 inch mill and overlay for the length of the cut and full width of the lane, as required by these Regulations. Excavations result in the need to reconstruct the surface and/or subsurface structure of the street earlier than would be required if the excavation or disturbance did not occur. A portion of the Permit fee relates to restoration costs. The cost to restore the pavement to substantially its original condition shall be calculated as the cost to construct a 2-inch mill and overlay for the length of the cut and the full width of the lane, and shall be additionally based on the age of the pavement as set forth below and as set forth in **Appendix A**.

## 6.2 Fee Determination

The cost of restoration shall be based on the cost to construct a 2-inch mill and overlay for the length of the cut and the full width of the lane. The unit prices for the Permit fee relating to restoration costs shall be reviewed annually and revised to reflect significant increases or decreases based on the bid tabulation from the City's annual capital improvement program overlay project. The unit prices shall be determined by averaging the milling and overlay bid prices. The unit prices shall also include a proportionate share of the traffic control and mobilization bid prices and a 10% administrative fee. Revised fees shall be approved by the Director.

## 6.3 Fee Schedule

Pavement restoration fees, as set forth in **Appendix A**, will be assessed based on the age of the existing hot mix pavement surface. See section 6.4, Pavement Age Map, for pavement age information.

- 6.3.1 Cuts in pavements that are of 0-2 years of age (up to two years old) shall be infrared patched or milled and overlaid to a 2-inch depth for the length of the cut and the full width of each lane cut. A pavement restoration fee will not be assessed.
- 6.3.2 The fee for pavements that are 2-5 years of age (over two years old and up to five years old) shall be the unit price cost as determined in paragraph 6.2, Fee Determination.
- 6.3.3 The fee for pavements that are over five years of age shall be 70% of the unit price cost as determined in paragraph 6.2.
- 6.3.4 A pavement restoration fee will not be assessed for streets included on the Capital Improvement Program (CIP) 2-year schedule for overlay and reconstruction.
- 6.3.5 A pavement restoration fee will not be assessed when the Permit Holder or contractor elects to mill and overlay for the length of the cut and the full width of the lane. See Section 6.4.

## 6.4 Mill and Overlay instead of Pavement Restoration Fee

The Permit Holder or contractor may elect to mill and overlay for the length of the cut and the full width of the lane to a depth of 2 inches instead of paying the restoration fee. The following guidelines shall be used to determine the milling area for the overlay:

- 6.4.1 Streets with No Lane Striping or Centerline Striping Only
  - a. A strip of pavement over the street cut shall be milled to a 2-inch depth and a width of 12' plus any additional width for the requirement to mill 1' beyond the edges of the pavement cut.
  - b. If the location of the milled strip will result in an edge less than 4' from the street centerline or gutter lip line, the width shall be extended to the street centerline or gutter lip line.
  - c. If the location of the milled strip will result in an edge less than 1' from an existing pavement joint, the width shall be extended to the joint.
  - d. If the location of the milled strip is over the street centerline, the minimum milled width along a centerline shall be four (4) feet.

#### 6.4.2 Streets with Lane Striping

- a. A strip of pavement over the street cut shall be milled to a 2-inch depth and a width of one lane plus any additional width for the requirement to mill one (1) foot beyond the edges of the pavement cut.
- b. The edges of the milled strip shall be at the lane stripes or centered in a lane.
- c. If the location of the milled strip will result in an edge less than 2' from an existing pavement joint, the width shall be extended to the joint.
- d. Increased milling greater than one lane width shall be made in ½ lane width increments.

### 6.5 Pavement Age Map

In order to determine the restoration fee for any street, a map showing the pavement age of the City's streets will be published on the City website in January of each year. The pavement age map can be found on the Public Works Right-of-Way Permits page on the City website or by contacting the Right-of-Way Permit counter at 303-325-8000.

- 6.5.1 Streets that were new or overlayed in the two calendar years previous to the January when the map is published will be shown as 0-2 years of age on the map.
- 6.5.2 Streets that were new or overlayed in the third to fifth calendar years previous to the January when the map is published will be shown as 2-5 years of age on the map.
- 6.5.3 Streets that are over five years of age are the streets not shown as 0-2 or 2-5 years of age on the map.

**APPENDIX A  
CENTENNIAL RIGHT-OF-WAY PERMIT FEES**

<b>Permit #:</b>		<b># of Work Days:</b>		<b>App. Date:</b>		
<b>Contractor:</b>						
<b>Project Location or Address:</b>						
<b>Work Description:</b>						
<b>RIGHT-OF-WAY USE FEES</b>						
	<b>Unit</b>	<b>Unit Cost</b>	<b>Minimum Fee</b>	<b>Quantity</b>	<b>Unit Cost Calculation</b>	<b>Fee</b>
<b>BASE FEE</b> (required for each permit)	EA	\$ 65.00		-	\$ -	\$ -
<b>MAINTENANCE ACTIVITY FEE</b> (collector & arterial Streets)						
Maintenance activity - 1 to 3 locations	EA	\$ 20.00		-	\$ -	\$ -
Maintenance activity - annual fee	EA	\$ 335.00		-	\$ -	\$ -
<b>CONSTRUCTION ACTIVITY FEES</b>						
Excavation - backfill/compaction	SF	\$ 0.05	\$ 75.00	-	\$ -	\$ -
Pavement - cut/subgrade/pave/patch	SF	\$ 0.05	\$ 150.00	-	\$ -	\$ -
Pothole - cut/backfill/patch	EA	\$ 25.00	\$ 75.00	-	\$ -	\$ -
Concrete curb/gutter/sidewalk/crosspan	LF	\$ 1.00	\$ 75.00	-	\$ -	\$ -
Grading, erosion and sediment control	WK	\$ 100.00		-	\$ -	\$ -
Traffic control - lane closures/detour	WK	\$ 100.00		-	\$ -	\$ -
Traffic control - sidewalk or trail closure	EA	\$ 25.00		-	\$ -	\$ -
<b>PLAN REVIEW FEES</b>						
Street closure/detour plan review	EA	\$ 175.00		-	\$ -	\$ -
Project and/or plan review - \$550 Max	LF	\$ 0.40	\$ 40.00	-	\$ -	\$ -
<b>TOTAL RIGHT-OF-WAY USE FEE</b>						\$ -
<b>OTHER FEES</b>						
Re-inspection	EA	\$ 115.00		-	\$ -	\$ -
Technician Controlled Signal	HR	\$ 75.00	\$ 150.00	-	\$ -	\$ -
After-hours inspection or signal control	HR	\$ 90.00	\$ 180.00	-	\$ -	\$ -
Notice of Violation-Use Fee or \$600 Max	EA			-	\$ -	\$ -
<b>TOTAL OTHER FEES</b>						\$ -
<b>ASPHALT PAVEMENT RESTORATION FEES</b>						
2-inch mill and overlay for the full lane width instead of fee payment.				Check >		No Fee
0-2 year age - Infrared the patched area or mill and overlay 2 inches for the full lane width.						No Fee
Streets that are on the CIP Overlay/Reconstruction Project 2-year schedule.						No Fee
2-5 year age - longest cut dimension	LF	\$ 14.40		-	\$ -	\$ -
5+ year age - longest cut dimension	LF	\$ 10.08		-	\$ -	\$ -
<b>TOTAL PAVEMENT RESTORATION FEES</b>						\$ -
<b>OVERSIZE/OVERWEIGHT TRANSPORT PERMIT FEES</b>						
Fee calculated from application form						\$ -
<b>RESIDENTIAL DUMPSTER PERMIT FEES</b>						
Fee from application form		EA	\$ 25.00	-	\$ -	\$ -
Credit or previous fees paid						\$ -
<b>TOTAL RIGHT-OF-WAY PERMIT FEES DUE</b>					<b>\$</b>	<b>-</b>

Effective date: 3/21/11

**Note:** The Director reserves the right to waive any of the right-of-way permit fees for construction activities associated with a City collocation project (reference Section 4.2.1 of the Regulations) following approval of the waiver per Centennial Municipal Code § 11-6-70.