



## **MATERIAL INSPECTION AND TESTING AGREEMENT**

**Project Name:** \_\_\_\_\_

**Permit Number:** \_\_\_\_\_

**BEFORE A PERMIT CAN BE ISSUED:** The owner, or the engineer of record acting as the owner's agent, shall complete one copy of this Agreement and obtain all required signatures under acknowledgments. A preconstruction conference with the parties involved may be required to review the material testing requirements and procedures.

**APPROVAL OF FIELD ENGINEERS/INSPECTORS:** Each field engineer/inspector shall be approved by Development Engineering prior to performing any duties. Each field engineer/inspector shall submit his/her qualifications to Development Engineering and shall be subject to a personal interview for pre-qualification. Material inspection and testing shall comply with the provisions of the "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" and the "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" adopted by reference and incorporated into the Carson City Municipal Code (Chapter 15.20 CCMC).

### **A. DUTIES AND RESPONSIBILITIES OF THE FIELD ENGINEER/INSPECTOR.**

#### **1. Test Materials**

The field engineer/inspector shall perform all sampling and testing in accordance with the requirements of Section 336 of the Standard Specifications for Public Works Construction for the work required by the permit consisting of on-site and off-site improvements associated with said project, including but not limited to street paving, curb and gutter, sidewalk, sewer lines, water mains, storm drains, and all work appurtenant thereto in accordance with the plans, specifications and drawings heretofore submitted and filed with the City Engineer.

#### **2. Observe Work**

The field engineer/inspector shall observe the placement and compaction of pipe bedding and trench backfill material for conformance with the approved plans, specifications and drawings and the applicable provisions of the Standard Specifications and Details for Public Works Construction. The observed work shall start at a point one (1) foot above the top of the pipe and proceed up to the street subgrade.

#### **3. Report Nonconforming Items**

The field engineer/inspector shall bring nonconforming items to the immediate attention of the contractor and note all such items in the daily report. If any item is not resolved in a timely manner or is about to be incorporated in the work, the field engineer/inspector shall immediately notify Development Engineering by telephone at 887-2300, notify the engineer of record, and post a discrepancy notice.

#### **4. Furnish Daily Reports**

On request, each field engineer/inspector shall complete and sign both the field inspection record and the daily report form for inspections each day. These documents will remain at the job site with the contractor for review by the City's inspectors.

#### **5. Furnish Final Reports**

The inspection agency shall submit a final signed report to Development Engineering within two (2) weeks of the completion of the work, stating that all items requiring material inspections and tests within the scope of their work were fulfilled and reported and, to the best of their knowledge, in conformance with the approved plans,

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specifications, and approved change orders. Nonconforming and unresolved items or any discrepancies in inspecting and testing coverage shall be specifically itemized in this report.

**B. CONTRACTOR RESPONSIBILITIES**

**1. Notify Field Engineer/Inspector**

The contractor is responsible for notifying the field engineer/inspector or inspection agency regarding individual inspections and tests for items included in the permit and as noted on the approved plan. Adequate notice shall be provided so that the field engineer/inspector has time to become familiar with the project.

**2. Provide Access to Approved Plans**

The contractor is responsible for providing the field engineer/inspector access to the approved plans at the job site.

**3. Retain Field Inspection Records**

The contractor is responsible for retaining all testing and inspecting records at the job site, and for providing these records for review by the City's inspectors upon request.

**C. DEVELOPMENT ENGINEERING RESPONSIBILITIES**

**1. Other Testing and Report Review**

Development Engineering shall inspect all items of work not specifically covered in the "Duties and Responsibilities of the Field Engineer/Inspector" as specified above. Additionally, Development Engineering shall review all testing and inspection reports provided by the Inspection Agency under this agreement.

**2. Monitor Material Inspections and Tests**

Work requiring material inspections and tests and the tasks performed by field engineers/inspectors shall be monitored by the City's inspectors. Their approval must be obtained prior to backfilling trenches, placing concrete, or other similar activity in addition to that of the special inspector.

**D. OWNER RESPONSIBILITIES**

The project owner, or the engineer of record acting as the owner's agent, shall fund these inspecting and testing services.

**E. ENGINEER, OR ARCHITECT, OF RECORD RESPONSIBILITIES**

The engineer, or architect of record shall include testing and material inspection requirements on the plans and specifications.

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**ACKNOWLEDGMENTS**

I have read and agree to comply with the terms and conditions of this Agreement.

**Owner:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
*signature*  
\_\_\_\_\_  
*printed name*  
\_\_\_\_\_  
*company name*

**Contractor:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
*signature*  
\_\_\_\_\_  
*printed name*  
\_\_\_\_\_  
*company name*

**Testing Agency:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
*signature*  
\_\_\_\_\_  
*printed name*  
\_\_\_\_\_  
*company name*

**Project Engineer:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
*signature*  
\_\_\_\_\_  
*printed name*  
\_\_\_\_\_  
*company name*

**ACCEPTED FOR ENGINEERING DIVISION**

**By:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
*signature*  
\_\_\_\_\_  
*printed name*  
\_\_\_\_\_  
*Title*

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## TYPE AND AMOUNT OF TESTS REQUIRED

### \*COMPACTION TESTS ON BASE COURSE: (Nuclear Gage)

**Curb or Curb and Gutter** - One test every 500 l. f.

**Sidewalk** - One test every 500 l. f.

**Street** - One test every 500 l. f.

**Trench Backfill** - One test every 500 l. f. on each 1 ft. of lift with the first test being taken at 18 inches over the top of the pipe.

**Driveway Approach** - One test per driveway.

### \*CONCRETE TEST+: (Air, Slump and Cylinders)

**Sidewalk** - One test shall be required for any amount of concrete placed over 100 l.f. regardless of width. One test minimum shall be taken per day.

**Curb or Curb and Gutter** - One test shall be required for any amount of concrete placed over 100 l. f. and one test for each valley gutter.

**One test minimum shall be taken per day.**

**Driveway Approach** - One test for each commercial driveway approach.

### \*MARSHALL ASPHALT TEST:

**Asphalt Paving** shall require one test for any amount of paving over 10,000 sq. ft.

One test minimum shall be taken per day.

No test will be required for paving less than 10,000 sq. ft. unless required by the Standard Specifications for Public Works Construction.

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**ADDITIONAL TESTING SHALL BE PERFORMED IF REQUIRED BY  
THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION**

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