



CITY OF TUALATIN

18880 SW Martinazzi Avenue
Tualatin, OR 97062
Phone: (503) 692-2000
FAX: (503) 692-0147

Special Inspection & Testing	
Permit Number _____	Date _____

Project Name: _____

Project Address: _____

BEFORE A PERMIT CAN BE ISSUED the owner or owner’s representative shall complete, sign and submit to the Building Official of the City of Tualatin, one original, and one copy, of this Special Inspection & Testing form with the attached Inspection Matrix (2010 OSSC, Section 1704.1). Applicants of projects requiring special inspection or testing, please acknowledge your understanding of the following information by signing below and completing the attached Inspection Matrix. The Inspection Matrix is compiled from the tables in Chapter 17 of the 2010 OSSC.

Design Professional

The registered design professional shall prepare a statement of special inspection (2010 OSSC, Section 1705.1)

Contractor

The contractor is responsible for proper notification to the inspecting or testing agency for items noted in the special inspection matrix and items required and/or noted on the approved plans.

Testing Laboratory

The testing laboratory shall be solely responsible for taking samples, transportation of samples, and testing of samples.

Testing Agency

The testing agency shall submit copies of all laboratory reports and inspections directly to the Building Official.

Inspection Agency

The inspection agency shall provide detailed records of qualifying certifications to the Building Official (2010 OSSC, Sections 1703.1 and 1704.1.2).

Special Inspectors

The special inspector shall provide copies of the field reports, testing reports, and an original summary report to the Building Official for items noted in the special inspection matrix (2010 OSSC, Section 1703.1.3).

Prior to the issuance of a Certificate of Occupancy the inspection agency shall submit a final report documenting the completion required special inspections 2007 OSSC, Section 1704.1.2.

Entity	Representative Name <i>(print)</i>	Representative Signature
Owner/Owners Rep.		
Contractor		
Architect/Engineer		
Inspection Agency		
Building Official		



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<h2 style="margin: 0;">Special Inspection Matrix</h2> <p style="margin: 5px 0;">Permit No. _____ Date _____</p>

Project Name: _____

Project Address: _____

This matrix shall be completed by the design professional in responsible charge. Please mark all applicable items in the tables provided. 2010 OSSC, Chapter 17.

Soils

**Table 1704.7
 Required Verification and Inspection of Soils**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
	Verify materials below footing to achieve the design bearing capacity.	---	X
	Verify excavations are extended to proper depth and have reached proper material.	---	X
	Perform classification and testing of controlled fill materials.	---	X
	Verify use of proper materials, densities and lift thickness during placement and compaction of controlled fill.	X	---
	Prior to placement of controlled fill, observe sub-grade and verify that the site has been prepared properly.	---	X

Specialty Foundations

**Table 1704.8
 Required Verification and Inspection of Pile Foundations**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
	Verify pile materials, sizes and length comply with the requirements.	X	---
	Determine capacities of test piles and conduct additional load tests as required.	X	---
	Observe driving operations and maintain complete and accurate records for each pile.	X	---
	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any pile damage.	X	---
	For steel piles, perform additional inspections in accordance with Section 1704.3.	---	---
	For concrete piles and concrete-filled piles, perform additional inspections in accordance with Section 1704.4.	---	---
	For specialty piles, perform additional inspections as determined by the design professional in responsible charge.	---	---
	For augered uncased piles and caisson piles, perform inspections in accordance with Section 1704.9.	---	---

**Table 1704.9
Required Verification and Inspection of Pier Foundations**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
	Observe drilling operations and complete and accurate records for each pier.	X	---
	Verify placement locations and plumbness, confirm pier diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable), and adequate end bearing strata capacity.	X	---
	For concrete piers, perform additional inspections in accordance with Section 1704.4	---	---
	For masonry piers, perform additional inspections in accordance with Section 1704.5 .	---	---

Concrete

**Table 1704.4
Required Verification and Inspection of Concrete Construction**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
	Inspection of reinforcing steel, including pre-stressing tendons, and placement. ACI 318: 3.5,7.1-7.7 and OSSC 1913.4	---	X
	Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b. AWS D1.4, ACI 318: 3.5.2	---	---
	Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased. OSSC 1911.5	X	---
	Verifying use of required design mix. ACI 318: Ch. 4, 5.2-5.4 and OSSC 1904.2.2, 1913.2, 1913.3	---	X
	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump test and air content tests, and determine the temperature of the concrete. ASTM C 172, ASTM C 31, ACI 318: 5.6, 5.8 and OSSC 1913.10	X	---
	Inspection of concrete and shotcrete placement for proper application techniques. ACI 318: 5.9, 5.10 and OSSC 1913.6, 1913.7, 1913.8	X	---
	Inspection for maintenance of specified curing temperature and techniques.	---	X
	Inspection of pre-stressed concrete: a. Application of pre-stressing forces. b. Grouting of Bonded pre-stressing tendons in the seismic-force-resisting system. ACI 318: 18.20 and ACI 318: 18.18.4	X X	---
	Erection of pre-cast concrete members. ACI 318: Ch. 16	---	X
	Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs. ACI 318: 6.2	---	X
	Inspect formwork for shape, location and dimensions of the concrete member being formed. ACI 318: 6.1.1	---	X

Steel

**Table 1704.3
Required Verification and Inspection of Steel Construction**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
_____	Materials verification of high strength bolts, nuts, and washers: a. Identification markings to conform with ASTM standards specified in the approved construction documents. b. Manufacturer's certificate of compliance required. Applicable ASTM material specification; AISC 360, Section A3.3	---	X X
_____	Inspection of high strength bolting: a. Bearing-type connections. b. Slip critical connections. AISC 360, Section M2.5 and OSSC 1704.3.3	--- X	X X
_____	Material verification of structural steel. a. Identification markings to conform with ASTM specification in the approved construction documents. b. Manufacturer's certified mill test reports. ASTM 6 or ASTM 568 and OSSC 1708.4	--- ---	--- ---
_____	Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the construction documents. b. Manufacturer's certificate of compliance required. AISC 360, Section A3.5	--- ---	--- ---
_____	Inspection of welding: a. Structural steel: 1) Complete and partial penetration groove welds. 2) Multipass fillet welds. 3) Single-pass fillet welds > 5/16 4) Single-pass fillet welds ≤ 5/16 5) Floor and roof deck welds b. Reinforcing steel: 1) Verification of weldability of reinforcing steel other than ASTM A706 2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 3) Shear reinforcement 4) Other reinforcing steel. AWS D1.4, ACI 318: 3.5.2 and OSSC 1704.3	--- X X X --- --- --- --- --- X --- X ---	--- --- --- --- X X --- X --- ---
_____	Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bracing and stiffening. b. Member locations. c. Application of joint details at each connection. OSSC 1704.3.2	--- --- ---	X --- ---

For SI: 1 inch = 25.4 mm

a. Where applicable, see also Section 1707.1 Special inspection for seismic resistance.

Masonry

**Table 1704.5.1
Level 1 Special Inspection For Masonry Construction**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>As masonry construction begins, the following shall be verified to ensure compliance:</p> <ul style="list-style-type: none"> a. Proportions of site-prepared mortar. Art. 2.6A b. Construction of mortar joints. Art. 3.3B c. Location of reinforcement, connectors pre-stressing tendons, and anchorage. Art. 3.4, 3.6A d. Pre-stressing technique. Art. 3.6B e. Grade and size of pre-stressing tendons and anchorage. Art. 2.4B, 2.4H <p>ACI 530.1, ASCE 6 and TMS 602^a</p>	<p>---</p> <p>---</p> <p>---</p> <p>---</p> <p>---</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>The inspection program shall verify:</p> <ul style="list-style-type: none"> a. Size and location for structural elements. Art 2.6A b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction. Sec. 1.2.2(e), 2.1.4, 3.1.6 c. Specified size, grade and type of reinforcement. Sec. 1.13 and Art. 2.4, 3.4 d. Welding of reinforcing bars. Sec 2.1.10.7.2, 3.3.3.4(b) e. Protection of masonry during cold weather (temp. < 40°F), or hot weather (temp. ≥ 90°F). OSSC 2104.3, 2104.4 and Art. 1.8C, 1.8D f. Application and measurement of pre-stressing force. Art. 3.6B <p>ACI530, ASCE 5, TMS 402^a and TMS 602^a</p>	<p>---</p> <p>---</p> <p>---</p> <p>X</p> <p>---</p> <p>---</p>	<p>X</p> <p>X</p> <p>X</p> <p>---</p> <p>X</p> <p>X</p>
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Prior to grouting, the following shall be verified to ensure compliance:</p> <ul style="list-style-type: none"> a. Grout space is clean. Art. 3.2D b. Placement of reinforcement and connectors and pre-stressing tendons and anchorages. Sec. 1.13 and Art. 3.4 c. Proportions of site-prepared grout and pre-stressing grout for bonded tendons. Art. 2.6B d. Construction of mortar joints. Art. 3.3B <p>ACI 530, ASCE 5, TMS 402^a, and TMS 602^a</p>	<p>---</p> <p>---</p> <p>---</p> <p>---</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p>
	<p>Grout placement shall be verified to ensure compliance with code and construction document provisions.</p> <ul style="list-style-type: none"> a. Grouting of pre-stressing bonded tendons. Art. 3.6C <p>ACI 530.1, ASCE 6, AND TMS 602^a</p>	<p>X</p>	<p>---</p>
	<p>Preparation of any grout specimens, mortar specimens, and or prisms shall be observed. Sec. 2105.2.2, 2105.3 and Art 1.4 OSSC. ACI 530.1, ASCE 5 and TMS 602^a</p>	<p>X</p>	<p>---</p>
	<p>Compliance with the required inspection provisions of the construction documents and the approved submittals shall be verified. Art. 1.5</p> <p>ACI 530.1, ASCE 5 and TMS 602^a</p>	<p>---</p>	<p>X</p>

**Table 1704.5.3
Level 2 Special Inspection for Masonry Construction**

Required Y = Yes	Verification and Inspection Task	Continuous During Task	Periodically During Task
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>From the beginning of masonry construction, the following shall be verified to ensure compliance:</p> <p>a. Proportions of site-prepared mortar, grout, and pre-stressing grout for bonded tendons. Art. 2.6A</p> <p>b. Placement of masonry units and construction of mortar joints. Art. 3.3B</p> <p>c. Placement of reinforcement, connectors. And pre-stressing tendons and anchorages. Sec. 1.13, Art.3.4, and 3.6A</p> <p>d. Grout space prior to grouting. Art. 3.2D</p> <p>e. Placement of grout. Art. 3.5</p> <p>f. Placement of pre-stressing grout. Art 3.6C</p> <p>ACI 530, 530.1, ASCE 5, ASCE6, TMS 402^a, and TMS 602^a</p>	<p>---</p> <p>---</p> <p>---</p> <p>X</p> <p>X</p> <p>X</p>	<p>X</p> <p>X</p> <p>X</p> <p>---</p> <p>---</p> <p>---</p>
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>The inspection program shall verify:</p> <p>a. Size and location of structural elements. Art. 3.3G</p> <p>b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. Sec. 1.2.2(e), 2.1.4, and 3.1.6</p> <p>c. Specified size, grade, and type of reinforcement. Sec. 1.13 and Art 2.4, 3.4</p> <p>d. Welding of reinforcing bars. Sec 2.1.10.7.2, 3.3.3.4(b)</p> <p>e. Protection of masonry during cold weather (temp. < 40^oF), or hot weather (temp. ≥ 90^oF). OSSC 2104.3, 2104.4 and Art. 1.8C, 1.8D</p> <p>f. Application and measurement of pre-stressing force. Art. 3.6B</p> <p>OSSC Chapter 17, ACI 530, ACI 530.1, ASCE 5, 6, and TMS 402^a, 406^a</p>	<p>---</p> <p>X</p> <p>---</p> <p>---</p> <p>X</p> <p>---</p> <p>X</p>	<p>X</p> <p>---</p> <p>X</p> <p>---</p> <p>X</p> <p>---</p>
	<p>Preparation of any required grout specimens, mortar specimens, and/or prisms shall be observed. Sec 2105.2.2, 2105.3 and Art 1.4 OSSC and ACI 530.1, ASCE 6, and TMS 602^a</p>	<p>X</p>	<p>---</p>
	<p>Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. Art 1.5 ACI 530.1, ASCE 6, and TMS 602a</p>	<p>---</p>	<p>X</p>

The following are other inspections required by the 2007 OSSC, Chapter 17 code sections, ICC-ES Reports, manufacturers installation instructions, and special requirements specified by the design professional in responsible charge. Please mark all sections that apply and/or fill in additional inspections as required.

Other

Other special Inspections

Required Y = Yes	Verification an Inspection Task	Continuous During Task	Periodically During Task
	High-Load Diaphragms 1704.6.1		
	Sprayed Fire-Resistant Materials 1704.10 through 1704.10.5.2		
	Mastic and Intumescent Fire-Resistant Coatings 1704.11		
	Exterior Insulation and Finish Systems (EIFS) 1704.12		
	Special Cases 1704.13		
	Smoke Control [F] 1704.14 through 1704.14.2		
	Seismic Resistance 1705.5 through 1705.3.1		
	Structural Observations 1709.1 through 1709.3		

Document Prepared BY: _____
Please Print

Signature: _____ **Date:** _____