

**STRUCTURAL OBSERVATION
SPECIAL INSPECTION AND TESTING AGREEMENT***

**CITY OF AMERICAN CANYON
BUILDING DIVISION**

To permit applicants of projects requiring special inspection and/or testing per CBC Chapter 17 as adopted for the City of American Canyon Building Code.

Project Name/Address _____

Building Permit No. _____

BEFORE A PERMIT CAN BE ISSUED: The owner, or the engineer or architect of record acting as the owner's agent, shall complete two (2) copies of this agreement and the attached structural test and inspection schedule including the required acknowledgments. A preconstruction conference with the parties involved shall be required to review the special inspection requirements and procedures.

Structural Observations. During the construction of a structure located in Seismic Zone No. 3 or No. 4 in which construction inspection, as defined in U.B.C. Section 1702 – Structural Observation, is required, the owner shall employ the engineer or architect responsible for the structural design of his designated engineer or architect to make visits to the site to observe general compliance with the approved structural plans, specifications and change orders. The engineer or architect shall submit a statement in writing to the building official stating the site visits have been made and that any deficiencies noted have been corrected.

A. Duties and Responsibilities for Structural Observation.

1. The engineer or architect responsible for the design shall submit a written field report at each stage of construction prior to continuing to the next phase of construction. Example of phasing:

- | | | |
|-----------------------|---|----------------------------|
| 1 st phase | - | pilings. |
| 2 nd phase | - | foundation and slabs |
| 3 rd phase | - | structural frame |
| 4 th phase | - | final plus final statement |

*Pages 1 thru 7 must be completed and returned

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APPROVAL OF SPECIAL INSPECTORS: Each special inspector shall be approved by the building department prior to performing any duties. Each special inspector shall submit his/her qualifications to the building department and subject to a personal interview for pre-qualifications. Special inspectors shall display approved identification, as stipulated by the building department, when performing the function of a special inspector.

Special inspection and testing shall meet the minimum requirements of the City of American Canyon Building Code 1701. The following conditions are also applicable:

- A. Duties and Responsibilities of the Special Inspector
 - 1. Observe Work
 - a. The special inspector shall observe the work for conformance with the building department approved (stamped) design drawings and specifications and applicable workmanship provisions of the U.B.C., Architect/engineer reviewed shop drawings and/or placing drawings may be used only as an aid to inspection.
 - b. Special inspections are to be performed on a continuous basis; meaning that the special inspector is on site in the general area at all times observing the work requiring special inspection. Periodic inspections, if any, must have prior approval by the building department based on a separate written plan reviewed and approved by the building department and the project engineer or architect.
 - 2. Report nonconforming items
 - a. The special 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 special inspector shall immediately notify the building department by telephone or in person, notify the engineer or architect, and post a discrepancy notice.
 - 3. Furnish daily reports
 - a. On request, each special inspector shall complete and sign both the special inspection record and the daily report form for each day's inspections to remain at the job site with the contractor for review by the building department's inspector.

4. Furnish weekly reports
 - a. The special inspector or inspection agency shall furnish weekly reports of tests and inspections directly to the building department, project engineer or architect, and others as designated. These reports must include the following:
 - I. Description of daily inspections and tests made with applicable locations;
 - II. Listings of all nonconforming items;
 - III. Report on how nonconforming items were resolved or unresolved as applicable; and
 - IV. Itemized changes authorized by the architect, engineer and building department if not included in nonconforming items.

5. Furnish Final Reports
 - a. The special inspector or inspection agency shall submit a final signed report to the building department stating that all items requiring special inspection and testing were fulfilled and reported and, to the best of his/her knowledge, in conformance with the approved design drawings, specifications, approved change orders and the applicable workmanship provisions of the U.B.C. Items not in conformance, unresolved items or any discrepancies in inspection coverage, (i.e., missed inspections, periodic inspections when continuous was required, etc.) shall be specifically itemized in this report.

B. CONTRACTOR RESPONSIBILITIES

1. Notify the Special Inspector
 - a. The contractor is responsible for notifying the special inspector or agency regarding individual inspections for items listed on the attached schedule and as notes on the building department approved plan. Adequate note shall be provided so that the special inspector has time to become familiar with the project.

2. Provide Access to Approved Plans
 - a. The contractor is responsible for providing the special inspector access to approved plans at the job site.

3. Retain Special Inspection Records
 - a. The contractor is also responsible for retaining at the job site all special inspection records submitted by the special inspector, and providing these records for review by the building department's inspector upon request.

C. BUILDING DEPARTMENT RESPONSIBILITIES

1. Approve Special Inspections
 - a. The building department shall approve all special inspectors and special inspection requirements.
2. Monitor Special Inspection
 - a. Work requiring special inspection and the building department's inspector shall monitor the performance of special inspectors. His/her approval must be obtained prior to placement of concrete or other similar activities in addition to that of the special inspector.
3. Issue Certificate of Occupancy
 - a. The building department may issue a Certificate of Occupancy after all special inspection reports and the final report have been submitted, accepted and all other jurisdictional requirements are complied with.

ACKNOWLEDGMENTS

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

OWNER: _____
(TYPED or PRINTED NAME)

BY: _____
(SIGNATURE)

DATE: _____

CONTRACTOR: _____
(TYPED or PRINTED NAME)

BY: _____
(SIGNATURE)

DATE: _____

SPECIAL INSPECTOR OR INSPECITON AGENCY:

(TYPED or PRINTED NAME)

BY: _____
(SIGNATURE)

DATE: _____

PROJECT ENGINEER/ARCHITECT:

(TYPED or PRINTED NAME)

BY: _____
(SIGNATURE)

DATE: _____

ACCEPTED FOR THE BUILDING DEPARTMENT

By: _____ Date: _____

CITY OF AMERICAN CANYON
SPECIAL INSPECTION AND TESTING SCHEDULE
(See appendix A on sheet 7 of 7)

Project Name	Building Permit No.
Project Address	Testing/Inspecting Agency or Special Inspector

REINFORCED CONCRETE, GUNITE, GROUT AND MORTAR:

Concrete	Gunite	Grout	Mortar	
				Aggregate Tests
				Reinforcing Tests
				Mix Designs
				Reinforcing Placement
				Batch Plant Inspection
				Inspect Placing
				Cast Samples
				Pick-up Samples
				Compression Test

PRECAST/PRESTRESSED CONCRETE:

PILES	POST-TENS	PRE-TENS	CLADDING	
				Aggregate Tests
				Reinforcing Test
				Tendon Tests
				Mix Designs
				Reinforcing Placement
				Insert Placement
				Concrete Batching
				Concrete Placement
				Installation Inspection
				Cast Samples
				Pick-up Samples
				Compression Tests

MASONRY:

- Special Inspection Stress Used
- Preliminary Acceptance Test (Masonry Units, Wall Prisms)
- Subsequent Tests (Mortar, Grout, Field Wall Prisms)
- Placement Inspection of Units

ADDITIONAL INSTRUCTIONS OR OTHER TEST AND INSPECTIONS:

STRUCTURAL STEEL/WELDING:

- Sample and Test (list specific members below)
- Shop Material Identification
- Welding Inspection Shop Field
- Ultrasonic Inspection Shop Field
- High-strength Bolting Inspection
 - Shop Field
- A325
 - N X F
- A490
- Metal Deck Welding Inspection
- Reinforced Steel Welding Inspection
- Metal Stud Welding Inspection
- Concrete Insert Welding Inspection

FIREPROOFING:

- Placement Inspection
- Density Tests
- Thickness Tests
- Inspect Batching

INSULATING CONCRETE:

- Sample and Test
- Placement Inspection
- Unit Weights

FILL MATERIAL:

- Acceptance Tests
- Placement Inspection
- Field Density

STRUCTURAL WOOD:

- Shear Wall Nailing Inspection
- Inspection of Glu-lam Fab.
- Inspection of Truss Joist Fab.
- Sample and Test Components

Form completed by: _____ Title: _____

Telephone Number: _____ Date: _____

PLEASE CHECK ONE BOX.

Structural Observation Required
For: _____

No Structural Observation Required
Form completed by _____

(Engineer of record) SIGNATURE

Telephone No.: (____) _____ Date: _____

APPENDIX "A"

All of the tests and inspections listed on the STRUCTURAL TESTS AND INSPECTIONS SCHEDULE will be called for at one time or another in the plans and specifications submitted to a Building Department. Seldom will one project require all of the Tests and Inspections shown. The listed items fall into one of the following categories:

1. Required by Plans and Specifications as deemed necessary by the Architect/Engineer for the integrity and successful performance of his project.
2. Required by specific reference in the 2001 edition of California Building Code & Volume 1 & 2.
3. A combination of 1 and 2.

The following lists the Building Code references which bear on each of the Tests and Inspections in the STRUCTURAL TESTS AND INSPECTION SCHEDULE. Where no Building Code Section is cited. The Test or Inspection is optional at the discretion of the Architect/Engineer or the Building Official.

REINFORCING STEEL

Tensile and Bent Test - 1903.1.1, 1903.1.4,
1903.5, STDS 19.4
Inspection of Placement - 1701.5.3
Inspection of Welding - 1701.5.5

MASONRY

Preliminary Tests (Masonry Units, Wall Prisms)
2102.1; 2102.2.4., .6.2; 2105.1, .2, .3
Subsequent Tests (mortar , grout, field wall prisms)
2102.2.8 & .9
Inspection of Masonry Placement and Grouting
1701.5.7., 2105.2.2 & 2106.3

CONCRETE

1903.1 & .3
1903.3
1905

GUNITE

See Conc.
See Conc.
See Conc.

GROUT

STDS 21-19

MORTAR

STDS 21-14

Agg. Tests for Design
Suitability of Agg.
Mix Designs
Test Panels
Con. Batch P1. Insp.
Cement Grab Sample
Inspect Placing
Compression Tests
Cast Specimens
Pick-up Samples,
Shrinkage Bars, Yield
Check, Air Content,
Dry Unit Wt.

STDS 19.307

See Conc.

1701.5

See Conc.

See Msnry.

See Msnry.

1903.8

See Conc.

STDS 21-18

STDS 21-17

STDS 19-4

See Conc.

STDS 21-18

STDS 21-17

STDS 19-4

See Conc.

STDS 21-18

STDS 21-17

STRUCTURAL WOOD

Inspection of Fabrication - STDS
Sample and Test Components - 2305, STDS

UNDERPINNING

Inspection of Steel Fabrication - 1701.5.5
Inspection of Rein. and Forms - 1701.5.4
Inspection of Concrete Placement - 1701.5.1

PRECAST CONCRETE

Reinforcing Tests (See Reinforcing Steel) - STDS 19-2
Inspection of Reinforcing Placement - 1701.5.4
Tendon Tests - STDS 19-1
Inspection of Tendon Placement - 1701.5.4.
Inspection of Concrete Placement - 1701.5.1.
Inspection of Concrete Batching - STDS 19.307
Inspection of Panel Attach. And Inserts - 1701.5.4
Inspection of Panel Installation - 1701.5.1
Compression Test - 1905.6
Inspection of Stressing - 1701.5.4

STRUCTURAL STEEL

Shop Ident. And Welding - 1701.5.5.,
2202.2., 2212A.4., 2212A.5., STDS 22-1
Shop U. T. - 2212A.5., STDS 22-1
Shop X-ray - 2212A.5., STDS 22-1
Field Welding - 1701.5.5., 2212A.5.,
Field Bolting - 1701.5.6., 2212A.5
Field U. T. - STDS 22-1, 2212A.5
Field X-ray - STDS 22-1, 2212A.5
Metal Deck Welding- 1701.5.5., 2212A.5

Pilings, Caissons, Caps, Ties

Inspection of Reinforcing Placement - 1701.5.4
Inspection of Concrete Placement - 1701.5.1
Inspection of Concrete Batching - STDS 19.307