



YOLO COUNTY BUILDING INSPECTION DIVISION

292 W. Beamer Street Woodland, CA 95695 (530) 666-8775 Fax (530) 666-8156

www.yolocounty.org

Special Inspection and Testing Procedure

To Building Permit Applicants for projects requiring special inspection and/or testing per Sections 1701-1709 of the 2016 edition of the California Building Code.

Project Name: _____

Project Address: _____

APN: _____

Permit Number: _____

Owner's Name: _____

1. Before a permit can be issued

If special inspection is required, the owner, or the engineer or architect of record acting as the owner's agent, shall read and be familiar with this policy and complete two (2) copies of the Special Inspection Acknowledgment form. The completed form shall become a part of the approved construction documents. A preconstruction meeting may be required prior to the permit being issued. A copy of this policy, the Special Inspection Procedure Acknowledgment form and the Special Inspection Requirement form will be attached to the approved plan set.

2. Approval of Special Inspector

Each special inspection agency, testing facility, and special inspector shall be recognized by the Building Official prior to performing any duties. Each special inspection agency must submit to the Building Official, a company profile including resumes of all employees, their certifications and a list of the type of work for which recognition is requested. Special inspectors shall carry approved identification when performing the functions of a special inspector. Identification cards shall follow the criteria set by the California Council of Testing and Inspection Agencies. No personnel changes shall be made without first obtaining the approval of the Building Official. Any unauthorized personnel changes may result in a "Stop Work Order" and possible permit revocation.

3. Approved Fabricators

Each fabricator shall be approved by the Building Official. Qualifications of approved fabricators shall be in compliance with 1704 of the California Building Code, 2016 edition. The approved fabricator shall submit a Certificate of Compliance that the work was performed in accordance with the approved plans and specification to the Building Official and the engineer or architect of record. *Note: Fabricator approval may be revoked by the Building Official for just cause.*

4. Structural Observation

In addition to or in lieu of other special inspection requirements, the engineer or architect of record shall provide structural observation per Section 1710 of the California Building Code, 2016 edition when required by the building. This requirement and frequency of Inspection shall be the County of Yolo Special Inspection and Testing Procedure determined prior to permit issuance, at the time of the pre-construction meeting, or during construction if the Building Official deems structural compliance with the approved plans cannot be reasonably assured without special inspection.

Special Inspection and Testing shall meet the minimum requirements of the California Building Code, Chapter 17. The following conditions are also applicable:

Duties and responsibilities of the Special Inspector and/or Architect or Engineer of Record – Limit of Authority:

The Special Inspector and/or Architect or Engineer of record is **NOT AUTHORIZED** to do any of the following:

1. To inspect or approve any work for which the building permit has not been issued.
2. Direct any work to commence before the Construction Inspection Section has completed its inspection. Deviations from this procedure must be requested in writing from the Building Official.
Exception: Prefabrication components per Section 1704 of the California Building Code.
3. To inspect or approve any work other than that for which they are specifically certified.
4. To approve alternative materials, structural changes, or revisions to plans without prior approval of the Building Official.

5. Observe work

The special Inspector shall observe the work assigned for conformance to the approved design drawings and specifications and the applicable workmanship provisions of the Code. Architect or Engineer reviewed shop drawings may be used only as an aid to inspection. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority and to the Building Official. California Building Code Section 1702 states that **Continuous Special Inspection** means that the special inspector is on site at all times observing the work requiring special inspection. California Building Code Section 1702, **Periodic Special Inspection** means that some inspections may be made on a periodic basis and satisfy the requirements of continuous inspection, provided this periodic inspection schedule is performed as outlined in the project plans and specifications and approved by the Building Official.

6. Report Non-conforming items

The special inspector, or architect or engineer of record, shall bring non-conformance 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 Official by telephone or in person, and notify the engineer or architect of record. Any work performed by the contractor or subcontractors following notification by the special inspector is “at risk” and will require subsequent approval by the Building Official.

7. Furnish daily reports

Each special inspector shall complete and sign the daily report form for each day’s inspection. These records are to remain at the job site with the contractor for review by the Building Official. Additionally, the special inspector shall complete the “Special Inspection Record” form attached to the job card each time the special inspector visits the jobsite and makes an inspection. This Special Inspection Record includes information regarding: Inspection type, name of special inspector, identification number, date, notes, and arrival/departure times.

8. Furnish weekly reports

The special inspector or inspection agency shall furnish a weekly report of tests and inspections directly to the Building Official, project engineer or architect, and others as designated. These reports include the following:

1. A description of daily inspections and tests made with applicable locations;
2. A listing of all non-conforming items;
3. A report of how non-conforming items were resolved or unresolved as applicable.

9. Furnish final report

The special inspector or quality control firm shall submit a signed final report to the Building Official, pursuant to Section 1704. Items 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. Any unresolved items must be approved by the Building Official. The report must be signed and stamped by appropriate professional, licensed by the State of California. **Final inspection of the structure will not be scheduled until the final report has been reviewed and approved by the Building Official.**

10. Contractor Responsibilities

- a. ***Quality control and Code Compliance.*** The contractor is primarily responsible for quality of the work performed and compliance with code requirements.
- b. ***Inspector notification.*** The contractor shall notify the special inspector at least 24 hours prior to performing any work that requires special inspection and shall provide sufficient lead time for the special inspector at the job site to review the construction documents and perform preparatory work.
- c. ***Provide access to plans.*** The contractor is responsible for providing the special inspector access to approved plans and specifications at the job site.
- d. ***Retain special inspection records.*** 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 Inspector upon request.
- e. ***Inspection and approval of work.*** The contractor shall not perform any work that requires special inspection without the presence of the inspector (s) during the performance of that work. **Work performed without special inspection is to be removed.**
- f. ***Final Inspection.*** The final inspection may not be scheduled until all reports documenting the special inspection work have been submitted and approved by the Building Official.
- g. ***Construction Inspection Section Approval.*** Approval of work by the special inspector does not relieve the contractor from obtaining Construction Inspection approval for inspections required per Section 110.4 of the California Building Code.

11. Owner's Responsibilities

- a. ***Special Inspector Employment.*** The owner or their agents shall employ a sufficient number of qualified special inspectors to assure inspection without hindering the quality assurance of the work.
- b. ***Inspection Continuity.*** It is recommended that the owner employ the same special inspection agencies throughout the job to assure continuity. All substitutions of special inspection agencies must have prior approval of the Building Official.
- c. ***Final Report.*** The owner or their agents are responsible for submittal of a final signed report before a final inspection can be scheduled, per Section 1704 of the California Building Code.
- d. ***Preconstruction Meeting.*** If required by the Building Official, the owner, contractor, architect, or engineer of record agrees to attend a preconstruction meeting with a representative of the Construction Inspection Section prior to permit issuance. The meeting is to be arranged and scheduled per mutual agreement by the contractor.

12. Architect or Engineer of Record Responsibilities

- a. Responsible to identify all construction methods that require Special Inspection prior to permit issuance.
- b. In accordance with Section 110.3.9, 110.4 and the structural observation requirements of Section 1704 of the California Building Code, the County may require that the architect or engineer of record attend a preconstruction meeting prior to the commencement of work. When structural observation is required by the Building Official, the engineer or architect of record shall periodically perform structural observation on the project to certify that the structure is constructed in accordance with the California Building Code, 2016 edition. The minimum observations are; foundation, structural frame, and final. Additional observations may be required as the result of deficiencies or corrective actions or special circumstances as agreed upon in the pre-permit stage of the project. Any observed deficiencies or changes to the approved plans must be brought to the attention of the Building Official as soon as possible, and no more than three (3) working days or before subsequent inspections. This observation is in addition to other required special inspections and is not intended as a substitution of other required inspections. A final report similar to item 9 of this procedure is to be submitted to the Building Official.

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 Tests |

| Piles | Grade Beams | Pretens | Precast | Aggregate Tests |
|-------|-------------|---------|---------|-------------------------|
| | | | | Reinforcing Tests |
| | | | | Tendon Test |
| | | | | Mix Designs |
| | | | | Reinforcing Placement |
| | | | | Insert Placement |
| | | | | Concrete Batching |
| | | | | Installation Inspection |
| | | | | Cast Samples |
| | | | | Pick-up Samples |
| | | | | Compression Tests |

Structural Observation by Architect or Engineer

| | |
|--|-----------------------------|
| | Foundation Observation |
| | Framing Observation |
| | Final Observation |
| | General Conformance Letters |

Masonry

| | |
|--|--|
| | Special Inspection Stresses Used |
| | Preliminary Acceptance Test (Masonry Units, Wall Prisms) |
| | Subsequent Tests (Mortar, Grout, Field Wall Prisms) |
| | Placement Inspection of Units |
| | URM Push/ Torque Test |

Additional Instructions/Other Tests & Inspections

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

Requirement specified by (Architect/Engineer of record) _____
 Contractor/ License No. _____
 Owner _____
 Special Inspection Agency / License No. _____
 Geotechnical Engineer/ License No. _____
 Fabricator/ ICC Approval No. _____
 Yolo Co. Plans Examiner _____

Date _____
 Date _____
 Date _____
 Date _____
 Date _____
 Date _____
 Date _____

Embedded Bolts or Inserts

| | | |
|--|-----------------------------------|---|
| | Bolt/Insert Placement Inspection | % |
| | Bolt/Insert Tension Test | % |
| | Bolt/Insert Shear Test | % |
| | Epoxy Mix & Placement Observation | % |

Structural Steel / Welding

| | |
|--|--|
| | Sample & Test (list specific members below) |
| | Shop Material Identification |
| | Welding Inspection: _____ Shop _____ Field |
| | Ultra Sonic Inspection: _____ Shop _____ Field |
| | High-Stress Bolting Inspection: _____ A325 _____ Shop _____ Field _____ A490 _____ N _____ X _____ F |
| | Metal Deck Welding Inspection |
| | Reinforcing Steel Welding Inspection |
| | Metal Stud Welding Inspection |
| | Concrete Insert Welding Inspection |

Structural Wood

| | |
|--|---------------------------------------|
| | Horizontal Diaphragms |
| | Shear Wall Nailing Inspection |
| | Inspection of Glu-lam Fabrication |
| | Inspection of Truss Joint Fabrication |
| | Sample and Test Components |

Geotechnical/Foundation

| | |
|--|--|
| | Soils Engineer Plan Review Acceptance Letter |
| | Foundation Excavation |
| | Pier Holes |
| | Site Drainage |
| | Fill Material |
| | Placement Inspection |
| | Field Density |
| | Acceptance Letter |

Fireproofing

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

The firms listed here have submitted a statement of qualifications to the County of Yolo Building Inspection Department. This office does not specifically recommend any of these firms but we do recognize them as qualified to perform the special inspections within their field of expertise. We will accept other firms as they submit the proper packet of qualifications.

RC = Reinforced Concrete
 SS = Structural Steel Welding/Bolting
 FP = Spray Applied Fire Proofing

PC = Pre-stressed/Post-tensioned Concrete
 G = Geotechnical
 URM = Unreinforced Masonry Push/ Torque Test Only

SM = Structural Masonry
 SO = Structural Observation

| Name | Address | Phone/Fax | RC | PC | SM | SS | G | SO | FP | URM |
|--------------------------------------|---|--------------------------------------|----|----|----|----|---|----|----|-----|
| Allerion / ACE Quality Control | 1830 Vernon Street, Suite 7 Roseville, CA 95678 | (916)742-5096 | X | X | X | X | X | X | X | X |
| Applied Testing Consultants | 3060 Thorntree Drive, Suite 10 Chico, Ca 95973 | (530) 891-6625 (530) 891-4243 fax | | | | X | | | | |
| Brown & Mills, Inc (BMI) | 2915 Innsbruck Drive, Suite A Redding, Ca 96003 | (530) 246-9499 (530) 246-9527 | X | X | | X | X | | | |
| Bruckenstein Welding and Inspections | 8125 County Road 30 1/2 Glenn, CA 95943 | (530)521-5959 | | | | X | | | | |
| BSK Associates | 1181 Quarry Lane #350 Pleasanton, CA 94566 | (925) 462-4000 (925) 462-6283 fax | X | X | X | X | X | X | X | X |
| Capital Engineering Laboratories | 631 Commerce Drive #200 Roseville, CA. 95678 | (916) 786-2488 (916) 786-9372 fax | X | X | X | X | | | X | |
| CTE Cal Company | 3628 Madison Avenue, Suite 22 Sacramento, CA 95660 | (916)331-6030 (916)331.6037 | X | X | X | X | X | X | X | |
| Converse Consultants | 4708 Roseville Road, Ste. 114 North Highlands, CA. 95660 | (916) 331-5444 (916) 331-6444 fax | X | X | X | X | X | | X | |
| ENGEO Inc. | 2213 Plaza Dr. Rocklin, Ca 95765 | (916) 786-8883 (888) 279-2698 fax | X | X | X | X | X | X | | |
| Fugro West Inc. | 502 Giuseppe Court, Ste. 11 Roseville, CA. 95678 | (916) 773-2600 (916) 782-4846 fax | X | X | X | X | X | | X | |
| Geocon Consultants, Inc. | 3160 Gold Valley Drive, Suite 800 Rancho Cordova, CA 95742 | (916) 852-9118 (916) 852-9132 | X | X | X | X | X | | X | |
| Gularte | 1049 Nichols Drive Rocklin CA 95765 | (916) 626-5577 (916) 626-5533 fax | X | X | | | X | | | |
| Hultgren-Tillis Engineers | 4085 Nelson Avenue, Suite A Concord, CA 94520-1257 | (925)685-6300 | | | | | X | | | |
| Inspection Consulting, Inc. | 11295 Sunrise Gold Circle, Ste E Rancho Cordova, CA 95742 | (916) 321-5580 (916) 321-5590 fax | X | X | X | X | X | | X | |
| KC Engineering Company | 865 Cotting Lane, Suite A Vacaville, Ca 95688 | (707) 447-4025 (707) 447-4143 fax | X | X | X | X | X | | | |
| Kleinfelder | 3077 Fite Circle Sacramento, CA. 95827 | (916) 366-1701 (916) 366-7013 fax | X | X | X | X | X | X | X | |
| Krazan & Associates, Inc. | 5044 Bailey Loop McClellan, CA. 95652 | (916) 564-2200 (916) 564-2222 fax | X | X | X | X | X | X | | |
| MatriScope, Inc. | 3102 Industrial Blvd. West Sacramento, CA. 95691 | (916) 375-6700 (916) 375-6702 fax | X | X | X | X | X | | X | |
| MPE - Mid Pacific Engineering, Inc. | 4200 North Freeway Blvd, Suite 5 Sacramento, CA 95834 | (916) 239-4230 | X | X | X | X | X | X | X | X |
| Pemberton Engineering | 502 Mace Blvd. Ste. 2B Davis, CA. 95616 | (530) 792-0511 (530) 792-7109 fax | | | | | | X | | |
| Raney Geotechnical Inc. | 3140 Beacon Blvd. West Sacramento, Ca 95691 | (916) 371-0434 (916) 371-1809 fax | X | X | X | X | X | | X | |
| Salem Engineering Group, Inc. | 202 Val Dervin Parkway, Ste 300 Stockton CA 95206 | (209) 931-2226 (209) 931-2227 fax | X | X | X | X | X | | X | |
| SoilCrete Engineering & Testing Inc. | 3325 Longview Drive Sacramento, CA 95821 | (916) 419-1900 (866) 705-4778 fax | X | X | X | X | X | X | | X |
| Terracon Consultants, Inc. | 50 Goldenland Court Sacramento, CA 95834 | (916) 283-8406 | X | X | X | X | X | X | X | X |
| Twinning Inc. | 1572 Santa Ana Avenue Sacramento, CA 95838 | (916) 649-9000 (916) 921-8532 | X | X | X | X | X | X | X | X |
| Wallace- Kuhl & Associates, Inc. | 3251 Beacon Blvd. Suite 300 West Sacramento, CA. 95833 | (916) 372-1434 | X | X | X | X | X | | X | |
| West Coast Observation, Inc. | 8941 Atlanta Avenue, #322 Huntington Beach, CA 92646 | (909)957-1009 | X | X | X | X | X | | X | |
| Youngdahl Consulting Group Inc. | 502 Giuseppe Court, Suite 2 Roseville, Ca 95678 | (916) 773-7633 (916) 773-7833 fax | X | X | X | X | X | X | X | X |