CITY of BELVEDERE

Project Title: _____ Permit #: _____

Project Address: _____

## STATEMENT OF SPECIAL INSPECTION FORM

This Statement of Special Inspections is submitted in fulfillment of the requirements of CBC Sections 1704 and 1705.

Special Inspections and Testing will be performed in accordance with the approved plans and specifications, this statement and CBC sections 1704, 1705, 1707, and 1708.

The attached Schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements.

Any additional tests and inspections required by the approved plans and specifications will also be performed.

**BEFORE A PERMIT CAN BE ISSUED:**
The owner or his representative, on the advice of the registered design professional in responsible charge, shall complete, sign by all parties, and submit two (2) copies of this package to this Division for review and approval.

CITY of BELVEDERE

Permit #: _____

The owner and his general contractor, where applicable, shall also acknowledge the following conditions applicable to Special Inspection and/or Testing.

1. The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections.
2. Contractor is responsible for proper notification to the Inspection or Testing agency for items listed.
3. Only the testing laboratory should take samples and transport them to their laboratory.
4. Copies of all laboratory reports and inspections are to be sent directly to this Division and to the registered design professional in responsible charge by the Testing agency on a weekly basis.
5. Inspection agency to submit names and qualifications of on-site special inspectors to this Division for approval. Submission of qualifications is not required when the agency utilizes the inspectors who are pre-approved by the City. See Item #10 below.

   The agency must provide each special inspector with an identification badge that indicates the following:
   a) Name of Inspector
   b) Photo of Inspector
   c) The specific areas in which the inspector is qualified to inspect
   d) An authorization signature by the registered engineer who is a full-time employee of the agency
   e) The special inspector shall display his/her badge whenever performing the function of an inspector

6. The special inspector is responsible to the Chief Building Official for immediate notification of any concerns and/or problems encountered.
7. It is the responsibility of the contractor to review the Building Division approved plans for additional inspection or testing requirements that may be noted. A pre-construction conference at the job site is required to review special inspection procedures.
8. The special inspector shall use only Building Division approved drawings.
9. BEFORE AN OCCUPANCY PERMIT CAN BE ISSUED: A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.1.2). The Final Report will document:
   - Required special inspections
   - Correction of discrepancies noted in inspections

   A Copy of final report to be maintained at the job site for Building Inspector's review prior to final inspections.

10. Attach a City approved matrix list from the Special Inspection Agency for all special inspectors showing inspection areas for which they are qualified by experience and appropriate certifications (see enclosed). This will be cross checked with the list currently residing in our office, to make sure all special inspectors are approved by the City.

**ACKNOWLEDGEMENT:**

Print: _____ Sign: _____ Date: _____
Registered Design Professional in Responsible Charge

Print: _____ Sign: _____ Date: _____
Owner's Authorization

Print: _____ Sign: _____ Date: _____
Contractor

Print: _____ Sign: _____ Date: _____
Special Inspection Agency

Print: _____ Sign: _____ Date: _____
Building Official's Acceptance

## SPECIAL INSPECTION AND TESTING AGENCIES

Project Title: _____ Permit #: _____

Project Address: _____

The following are the testing agencies and special inspectors that will be retained to conduct tests and inspection on this project.

| **Responsibility** | **Firm Name** | **Address, Telephone, E-mail** |
|---|---|---|
| 1. Special Inspection | | |
| 2. Material Testing (For nondestructive testing, submit names, qualifications, and certifications for review and approval) | | |
| 3. Soils Inspections per Table 1704.7 (The company and/or individuals performing the soils inspection must submit their qualification for review and approval) | | |

## SEISMIC AND WIND RESISTANCE

**Seismic Requirements (Section 1705.3.1)**

Description of seismic-force-resisting system and designated seismic systems subject to special inspections on accordance with Section 1705.3:

| |
|---|
| The extent of the seismic-force-resisting system is defined in more detail in the construction documents. |

**Wind Requirements (Section 1705.4.1)**

Description of main wind-force-resisting system and designated wind resisting components subject to special inspections in accordance with Section 1705.4.2:

| |
|---|
| The extent of the main wind-force-resisting system and wind resisting components is defined in more detail in the construction documents. |

## SUMMARY OF SPECIAL INSPECTION

Complete the following form to indicate the types of special inspection required on this project. List the required inspections from the California Building Code Chapter 17; indicate Continuous or Periodic or both as required by code. **Reference CBC Chapter 17 or the attached "Schedule of Special Inspection" for a complete list of inspections.**

| Construction Type Requiring Inspection | List of Required Inspections | C | P |
|---|---|---|---|
| Steel – Table 1704.3 | | | |
| | | | |
| | | | |
| Concrete – Table 1704.4 | | | |
| | | | |
| | | | |
| Masonry | | | |
| Level 1 ☐ – Table 1704.5.1 | | | |
| Level 2 ☐ – Table 1704.5.3 | | | |
| Wood – Section 1704.6 | | | |
| | | | |
| | | | |
| Soils – Table 1704.7 | | | |
| | | | |
| | | | |
| Pile Foundations – Table 1704.8 | | | |
| | | | |
| | | | |
| Pier Foundations – Table 1704.9 | | | |
| | | | |
| | | | |
| Sprayed Fire-Resistant Materials – Section 1704.10 | | | |
| | | | |
| Mastic and Intumescent Coatings – Section 1704.11 | | | |
| Exterior Insulation and Finish Systems – Section 1704.12 | | | |
| Alternate Materials and Systems – Section 1704.13 | | | |
| Smoke Control System – Section 1704.14 | | | |
| Wind Resistance – Section 1705.4 | | | |
| | | | |
| Seismic Resistance – Section 1707 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Testing for Seismic Resistance – Section 1708 | | | |
| | | | |
| Specify other tests, inspections, or special instructions as required: (Concrete Anchoring Systems) | | | |
| | | | |
| | | | |

# Schedule of Special Inspection

**C** = Continuous Inspection; **P** = Periodic Inspection
**X** = Denotes either Continuous Inspection or Periodic Inspection
**---** = Denotes an activity that is either a one-time activity or one whose frequency is defined in some other manner

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **1704.2.1** - Inspect fabricator's fabrication and quality control procedures. | --- | --- |
| | | |
| **Table 1704.3** - Steel | | |
| 1. Material verification of high-strength bolts, nuts and washers. | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents | | X |
| b. Manufacturer's certificate of compliance required. | | X |
| 2. Inspection of high-strength bolting: | | |
| a. Bearing-type connections. | | X |
| b. Slip-critical connections | X | X |
| 3. Material verification of structural steel: | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents. | --- | --- |
| b. Manufacturer's certificate of compliance required. | --- | --- |
| 4. Material verification of weld filler materials: | | |
| a. Identification markings to conform to AWS designation listed in the WPS. | --- | --- |
| b. Manufacturer's certificate of compliance required. | --- | --- |
| 5. Inspection of welding: | | |
| a. Structural steel | | |
| 1) Complete and partial penetration | X | |
| 2) Multipass fillet welds. | X | |
| 3) Single-pass fillet welds > 5/16" | X | |
| 4) Single-pass fillet welds ≤ 5/16". | | X |
| 5) Floor and roof deck welds. | | X |
| b. Reinforcing steel | | |
| 1) Verification of weldability of reinforcing steel other than ASTM A706. | | X |
| 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. | X | |
| 3) Shear reinforcement. | X | |
| 4) Other reinforcing steel | | X |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| 6. Inspection of steel frame joint details compliance with approved construction documents:<br>a. Details such as bracing and stiffening<br>b. Member locations.<br>c. Applications of joint details at each connection. | | X |
| | | |
| **1704.3** - Welded studs when used for structural diaphragms. | | X |
| **1704.3** - Welding of cold-formed sheet steel framing members. | | X |
| **1704.3** - Welding of stairs and railing systems. | | X |
| | | |
| **Table 1704.4** - Concrete | | |
| 1. Inspection of reinforcing steel, including prestressing tendons and placement. | | X |
| 2. Inspection of reinforcing steel welding in accordance with Table 1704.3 Item 5b. | --- | --- |
| 3. Inspect bolts to be installed in concrete prior to and during placement of concrete where | X | |
| 4. Verifying use of required design mix. | | X |
| 5. At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete. | X | |
| 6. Inspection of concrete and shotcrete placement for proper application techniques. | X | |
| 7. Inspection for maintenance of specified curing temperature and techniques. | | X |
| 8. Inspection of prestessed concrete. | | |
| a. Application of prestressing forces. | X | |
| b. Grouting of bonded prestressing tendons in the seismic force-resisting system. | X | |
| 9. Erection of precast concrete members. | | X |
| 10. Verification of in-situ concrete strength, prior to stressing of tendons in postensioned concrete and prior to removal of shores and forms from beams and structural slabs. | | X |
| 11. Inspect formwork for shape, location, and dimensions of the concrete member being formed. | | X |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **Table 1704.5.1 -** Level 1 Masonry Inspections | | |
| 1. At the start of masonry construction verify the following to ensure compliance: | | |
| a. Proportions of site-prepared mortar. | | X |
| b. Construction of mortar joints. | | X |
| c. Locations of reinforcement, connectors, prestressing tendons, and anchorages. | | X |
| d. Prestressing technique. | | X |
| e. Grade and size of prestressing tendons and anchorages | | X |
| 2. Verify: | | |
| a. Size and location of structural elements. | | X |
| b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. | | X |
| c. Specified size, grade, and type of reinforcement. | | X |
| d. Welding of reinforcing bars. | X | |
| e. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F | | X |
| f. Application and measurement of prestressing force. | | X |
| 3. Prior to grouting verify the following to verify compliance. | | |
| a. Grout space is clean. | | X |
| b. Placement of reinforcement and connectors and prestressing tendons and anchorages. | | X |
| c. Proportions of site-prepared grout and prestressing grout for bonded tendons. | | X |
| d. Construction of mortar joints. | | X |
| 4. Verify grout placement to ensure compliance with code and construction document provisions. | X | |
| a. Observe grouting of prestressing bonded tendons. | X | |
| 5. Observe preparation of required grout specimens, mortar specimens, and/or prisms. | X | |
| 6. Verify compliance with required inspection provisions of the construction documents and the approved submittals. | | X |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **Table 1704.5.3 -** Level 2 Masonry Inspections | | |
| 1. From the beginning of masonry construction the following shall be verified to ensure compliance. | | |
| a. Proportions of site-prepared mortar, grout, and prestressing grout for bonded tendons. | | X |
| b. Placement of masonry units and construction of mortar joints. | | X |
| c. Placement of reinforcement, connectors and prestressing tendons and anchorages. | | X |
| d. Grout space prior to grouting. | X | |
| e. Placement of grout. | X | |
| f. Placement of prestressing grout. | X | |
| 2. Verify: | | |
| a. Size and location of structural elements. | | X |
| b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction. | X | |
| c. Specified size, grade, and type of reinforcement. | | X |
| d. Welding of reinforcing bars. | X | |
| e. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F | | X |
| f. Application and measurement of prestressing force. | X | |
| 3. Preparation of any required grout specimens, mortar specimens, and/or prosms shall be observed. | X | |
| 4. Compliance with required provisions of construction documents and the approved submittals shall be verified. | | X |
| | | |
| **1704.6** - Inspect prefabricated wood structural elements and assemblies in accordance with Section 1704.2 | --- | --- |
| **1704.6** - Inspect sire built assemblies. | --- | --- |
| **1704.6.1** - Inspect high load diaphragms: | --- | --- |
| 1. Verify grade and thickness of sheathing. | --- | --- |
| 2. Verify nominal size of framing members adjoining panel edges. | --- | --- |
| 3. Verify:<br>a. Nail or staple diameter and length,<br>b. Number of fastener lines,<br>c. Spacing between fasteners in each line and at edge margins. | --- | --- |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **Table 1704.7** - Inspection of Soils | | |
| 1. Verify materials below footings are adequate to achieve the desired bearing capacity. | | X |
| 2. Verify excavations are extended to proper depth and have reached proper material. | | X |
| 3. Perform classifications and testing of controlled fill materials. | | X |
| 4. Verify use of proper materials, densities and lift thickness during placement and compaction of controlled fill. | X | |
| 5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly. | | X |
| | | |
| **Table 1704.8** - Pile Foundations | | |
| 1. Verify pile materials, sizes and lengths comply with the requirements. | X | |
| 2. Determine capacities of test piles and conduct additional load tests, as required. | X | |
| 3. Observe driving operations and maintain complete and accurate records for each pile. | X | |
| 4. Verify locations of piles and their plumbness.<br>a. Confirm type and size of hammer.<br>b. Record number of blows per foot of penetration.<br>c. Determine required penetrations to achieve design capacity.<br>d. Record tip and but elevations and record any pile damage. | X | |
| 5. For steel piles, perform additional inspections in accordance with Section 1704.3. | --- | --- |
| 6. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge. | --- | --- |
| 7. For augured uncased piles and caisson piles, perform inspections in accordance with Section 1704.9. | --- | --- |
| | | |
| **Table 1704.9** - Pier Foundations | | |
| 1. Observe drilling operations and maintain complete and accurate records | X | |
| 2. Verify locations of piers and their plumbness. Confirm:<br>a. Pier diameters,<br>b. Bell diameters (if applicable),<br>c. Lengths, embedment into bedrock (if applicable),<br>d. Adequate end strata bearing capacity. | X | |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **1704.10** - Sprayed Fire-Resistant Materials | | |
| 1. Inspect surface for accordance with the approved fire-resistance design and the approved manufacturer's written instructions. | --- | --- |
| 2. Verify minimum ambient temperature before and after application. | --- | --- |
| 3. Verify ventilation of area during and after application. | | X |
| 4. Measure average thickness per ASTM E605 and Section 1704.10.3. | --- | --- |
| 5. Verify density of material for conformance with the approved fire-resistant design and ASTM E605. | --- | --- |
| 6. Test cohesive/adhesive bond strength per Section 1704.10.5. | --- | --- |
| **1704.11** - Mastic and Intumescent Fire-Resistant Coating | --- | --- |
| **1704.12** - Exterior Insulation and Finish Systems (EIFS) | --- | --- |
| **1704.13** - Alternate Materials and Systems | --- | --- |
| **1704.14** - Smoke Control System | --- | --- |
| | | |
| **1705.4** - Wind Resistance | | |
| 1705.4.2<br>1. Roof cladding and roof framing connections. | --- | --- |
| 2. Wall connections to roof and floor diaphragms and framing. | --- | --- |
| 3. Roof and floor diaphragm systems, including collectors, drag struts and boundary elements | --- | --- |
| 4. Vertical wind-force-resisting systems, including braced frames, moment frames, and shear walls. | --- | --- |
| 5. Wind-force-resisting system connections to the foundation. | --- | --- |
| 6. Fabrication and installation of systems or components required to meet the impact resistance requirements of Section 1609.1.2. | --- | --- |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **Special Inspections for Seismic Resistance** | | |
| **1707.2** - Special inspection for welding in accordance with AISC 341. | X | |
| **1707.3** - Structural Wood | | |
| 1. Inspect field gluing operations of elements of the seismic-force-resisting system. | X | |
| 2. Inspect nailing, bolting, anchoring, and other fastening of components within the seismic-force-resisting system, including:<br>a. wood,<br>b. wood diaphragms,<br>c. drag struts, braces,<br>d. shear panels,<br>e. hold-downs. | | X |
| **1707.4** - Cold-Formed Steel Framing | | |
| 1. Welding of elements of the seismic-force-resisting system. | | X |
| 2. Inspection of screw attachments, bolting, anchoring, and other fastening of components within the seismic-force-resisting system including struts, braces, and hold-downs. | | X |
| **1707.5** - Pier Foundations | | |
| 1. Placement of reinforcing | | X |
| 2. Placement of concrete | X | |
| **1707.6** - Anchorage of storage racks and access floors 8 feet or greater in height. | | X |
| **1707.7** - Architectural Components | | |
| 1. Inspect erection and fastening of exterior cladding weighing more than 5 psf. | | X |
| 2. Inspect erection and fastening of interior and exterior non-bearing walls weighing more than 15 psf. | | X |
| 3. Inspect erection and fastening of interior and exterior veneer weighing more than 5 psf. | | X |

| Verification and Inspection | C | P |
|---|---|---|
| | | |
| **1707.8** - Mechanical and Electrical Components | | |
| 1. Inspect anchorage of electrical equipment for emergency or stand-by power systems. | | X |
| 2. Inspect anchorage of non-emergency electrical equipment. | | X |
| 3. Inspect installation of piping systems and associated mechanical units carrying flammable, combustible, or highly toxic contents. | | X |
| 4. Inspect installation of HVAC ductwork that contains hazardous materials. | | X |
| 5. Inspect installation if HVAC ductwork that contains hazardous materials. | | X |
| **1707.9** - Verify that the equipment label and anchorage or mounting conforms to the certificate of compliance when mechanical and electrical equipment must be seismically qualified. | --- | --- |
| **1707.10** - Seismic isolation system: Inspection of isolation system per ASCE 7-Section 17.2.4.8 | | X |
| | | |
| **1708.1** - Masonry Testing for Seismic Resistance | | |
| 1708.1.1 - Verify certificates of compliance prior to construction. | --- | --- |
| 1708.1.2 - Verification of $f'_m$ and $f'_{AAC}$ prior to construction. | --- | --- |
| 1708.1.3 - Verification of $f'_m$ and $f'_{AAC}$ every 5000 square feet during construction. | | X |
| 1708.1.4 - Verification of proportions of materials in mortar and grout as delivered to the site. | --- | --- |
| **1708.3** - Obtain mill certificates for reinforcing steel, verify compliance with approved construction documents, and verify steel supplied corresponds to certificate. | --- | --- |
| **1708.4** - Structural Steel: Invoke the QAP Quality Assurance requirements in AISC 341. | --- | --- |
| **1708.5** - Obtain certificate that equipment has been tested per Section 1708.5. | --- | --- |
| **1708.6** - Obtain system tests as required by ASCE 7 Section 17.8. | --- | --- |