



Statement Of Required Special Inspections

The Statement Of Required Special Inspections imprinted on the plan sheet shall be unique to the specific project identifying only the inspections as required.

Project Address: Permit No.:

Notation Used in Table:

Column headers:

- C Indicates continuous inspection is required.
P Indicates periodic inspections are required. The notes and or contract documents should clarify.
Notes Applicable standards as referenced from the California Building Code

Box entries:

- X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
--- Denotes an activity that is either a one-time activity or one whose frequency is defined in some other manner.
Selection box of required special inspections identified with an X by design professional.

Additional detail regarding inspections and tests are provided in the project specification or notes on the drawings.

Table with 4 columns: Verification and Inspection, C, P, Notes. Rows include inspection items like '1704.2.5 - Inspect fabricator's fabrication and quality control procedures' and '1704.2.5.1 - Certificate of Compliance from Approved Fabricator'.

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<input type="checkbox"/> Table 1705.2 – Structural Steel (AISC 360 and AISC 341)			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Fabricator and erector documents (Verify reports and certificates as listed in AISC, chapter N, paragraph N, paragraph 3.2 for compliance with construction documents.)			
<input type="checkbox"/> 2. Material verification of structural steel.		X	
<input type="checkbox"/> 3. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents.		X	
<input type="checkbox"/> 4. Structural steel welding:			
<input type="checkbox"/> a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1.)		---	
<input type="checkbox"/> b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2.)		---	
<input type="checkbox"/> c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3.)		---	
<input type="checkbox"/> d. Nondestructive testing (NDT) of welded joints:			EXCEPTION: NDT of welds completed in an approved fabricator's shop. See AISC 360, N7

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<input type="checkbox"/> 1) Complete penetration groove welds 5/16" or greater in risk category III or IV.		---	UT on 100%, may reduce to 25% per AISC 360, N5e
<input type="checkbox"/> 2) Complete penetration groove welds 5/16" or greater in risk category II.		---	UT on 10%, may increase to 100% per AISC 360, N5f
<input type="checkbox"/> 3) Thermally cut surfaces of access holes when material $t > 2"$.		---	
<input type="checkbox"/> 4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1.		---	
<input type="checkbox"/> 5) Fabricator's NDT reports when fabricator performs NDT.		---	AISC 360, N5d
<input type="checkbox"/> 5. Structural steel bolting:			
<input type="checkbox"/> a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-1.)		---	
<input type="checkbox"/> b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2.)		---	
<input type="checkbox"/> c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3.)		---	
<input type="checkbox"/> 6. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1.		---	

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<input type="checkbox"/> Table 1705.2.2 – Verification of Steel Construction Other Than Structural Steel			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Material verification of cold-formed steel deck:			
<input type="checkbox"/> a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X	Applicable ASTM material standards.
<input type="checkbox"/> b. Manufacturer's certified test reports.		X	
<input type="checkbox"/> 2. Inspection of welding:			
<input type="checkbox"/> a. Cold-formed steel deck:			
<input type="checkbox"/> 1) Floor and roof deck welds.		X	AWS D1.3
<input type="checkbox"/> b. Reinforcing steel:			
<input type="checkbox"/> 1) Verification of weldability of reinforcing steel other than ASTM A 706.		X	AWS D1.4, ACI 318: Section 3.5.2
<input type="checkbox"/> 2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X		AWS D1.4, ACI 318: Section 3.5.2
<input type="checkbox"/> 3) Shear reinforcement.	X		AWS D1.4, ACI 318: Section 3.5.2
<input type="checkbox"/> 4) Other reinforcing steel.		X	AWS D1.4, ACI 318: Section 3.5.2

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<input type="checkbox"/> Table 1705.3 - Concrete			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Inspection of reinforcing steel, including prestressing tendons and placement.		X	ACI 318: 3.5
<input type="checkbox"/> 2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2 Item 2b.			AWS D1.4, ACI 318: Section 3.5.2
<input type="checkbox"/> 3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.		X	ACI 318: 8.1.3, 21.1.8;
<input type="checkbox"/> 4. Inspection of anchors post-installed in hardened concrete members.		X	ACI 318: 3.8.6, 8.1.3, 21.1.8; CBC 1901.3
<input type="checkbox"/> 5. Verifying use of required design mix.		X	ACI 318: Ch. 4,5.2-5.4; CBC 1903
<input type="checkbox"/> 6. 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		ASTM C 172; ASTM C 31; ACI 318: 5.6; CBC 1903
<input type="checkbox"/> 7. Inspection of concrete and shotcrete placement for proper application techniques.	X		ACI 318: 5.9, 5.10; CBC 1908
<input type="checkbox"/> 8. Inspection for maintenance of specified curing temperature and techniques.		X	ACI 318: 5.11-5.13; CBC 1903
<input type="checkbox"/> 9. Inspection of prestressed concrete.			
<input type="checkbox"/> a. Application of prestressing forces.	X		ACI 318: 18.20

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<input type="checkbox"/> b. Grouting of bonded prestressing tendons in the seismic force-resisting system.	X		ACI 318: 18.18
<input type="checkbox"/> 10. Erection of precast concrete members.		X	ACI 318: Ch. 16
<input type="checkbox"/> 11. 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	ACI 318: 6.2
<input type="checkbox"/> 12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.		X	ACI 318: 6.1

<input type="checkbox"/> Table 1705.4 - Level B Masonry Inspections			
(TMS 402/ACI 530/ASCE 5 and TMS 602/ACI 530.1/ASCE 6)			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Verify compliance with the approved submittals.		X	TMS 602; Art.1.5
<input type="checkbox"/> 2. Verification of f'_m and f'_AAC prior to construction except where specifically exempted by the code.		X	TMS 602; Art 1.4B
<input type="checkbox"/> 3. Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X		TMS 602; Art.1.5B.1.b.3
<input type="checkbox"/> 4. As masonry construction begins, the following shall be verified to ensure compliance:			
<input type="checkbox"/> a. Proportions of site-prepared mortar.		X	TMS 602; Art.2.6A

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<input type="checkbox"/> b. Construction of mortar joints.		X	TMS 602; Art.3.3B
<input type="checkbox"/> c. Location of reinforcement, connectors, prestressing tendons, and anchorages.		X	TMS 602; Art.3.4, 3.6A
<input type="checkbox"/> d. Prestressing technique.		X	TMS 602; Art.3.6B
<input type="checkbox"/> e. Grade and size of prestressing tendons and anchorages.		X	TMS 602; Art.2.4B, 2.4H
<input type="checkbox"/> 5. During construction verify:			
<input type="checkbox"/> a. Compliance with required inspection provisions of the construction documents and the approved submittals.		---	
<input type="checkbox"/> b. Size and location of structural elements.		X	TMS 602; Art.3.3F
<input type="checkbox"/> c. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, etc.		X	TMS 402;1.16.4.3, 1.17.1
<input type="checkbox"/> d. Welding of reinforcing bars.	X		TMS 402; Sec. 2.1.7.7.2, 3.3.3.4(c); 8.3.3.4(b)
<input type="checkbox"/> e. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)		X	CBC 2105; TMS 602; Art. 1.8C, 1.8D
<input type="checkbox"/> f. Application and measurement of prestressing force.		X	TMS 602; Art. 3.6B
<input type="checkbox"/> 6. Prior to grouting verify the following:			
<input type="checkbox"/> a. Grout space is clean.		X	TMS 602; Art. 3.2B

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<input type="checkbox"/> b. Specified size, grade, and type of reinforcement.		X	TMS 602; Art.2.4, 3.4
<input type="checkbox"/> c. Placement of reinforcement and connectors and prestressing tendons and anchorages.		X	TMS 402; Sec. 1.16; TMS 602; Art. 3.4
<input type="checkbox"/> d. Proportions of site-prepared grout and prestressing grout for bonded tendons.		X	TMS 602; Art. 2.6B
<input type="checkbox"/> e. Construction of mortar joints.		X	TMS 602; Art. 3.3B
<input type="checkbox"/> 7. Verify grout placement to ensure compliance with code and construction document provisions.	X		TMS 602; Art. 3.5
<input type="checkbox"/> a. Observe grouting of prestressing bonded tendons.	X		TMS 602; Art. 3.6C
<input type="checkbox"/> 8. Observe preparation of required grout specimens, mortar specimens, and/or prisms.	X		CBC 2105; TMS 602; Art. 1.4
<input type="checkbox"/> 9. Additional levels of masonry inspection are required as otherwise noted on the plans.		---	

<input type="checkbox"/> Table 1705.5 - Required Verification and Inspection for Wood Construction			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Inspect prefabricated wood structural elements and assemblies in accordance with Section 1704.2.5.		---	
<input type="checkbox"/> 2. Inspect site-built assemblies.			
<input type="checkbox"/> a. Inspect high-load diaphragms:		---	CBC 1705.5.1

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<input type="checkbox"/> 1) Verify grade and thickness of structural panel sheathing.			
<input type="checkbox"/> 2) Verify nominal size of framing members at adjoining panel edges. Verify nail or staple diameter and length, number of fastener lines, and spacing between fasteners in each line and at edge margins.			
<input type="checkbox"/> b. Metal-plate-connected wood trusses spanning 60 feet or greater:		---	CBC 1705.5.2
<input type="checkbox"/> 1) Verify that the temporary installation restraint bracing and the permanent individual truss members restraint bracing are installed in accordance with the approved truss submittal package.			

<input type="checkbox"/> Table 1705.6 - Required Verification and Inspection of Soils			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Verify materials below shallow foundations are adequate to achieve the desired bearing capacity.		X	
<input type="checkbox"/> 2. Verify excavations are extended to proper depth and have reached proper material.		X	
<input type="checkbox"/> 3. Perform classification and testing of compacted fill materials.		X	

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<input type="checkbox"/> 4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X		
<input type="checkbox"/> 5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		X	

<input type="checkbox"/> Table 1705.7 - Required Verification and Inspection for Driven Deep Foundation Elements			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Verify element materials, sizes and lengths comply with the requirements.	X		
<input type="checkbox"/> 2. Determine capacities of test elements and conduct additional load tests, as required.	X		
<input type="checkbox"/> 3. Observe driving operations and maintain complete and accurate records for each element.	X		
<input type="checkbox"/> 4. 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 damage to foundation element.	X		
<input type="checkbox"/> 5. For steel elements, perform additional inspections in accordance with CBC Section 1705.2.		---	

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<input type="checkbox"/> 6. For concrete elements and concrete-filled elements, perform additional inspections in accordance with CBC Section 1705.3.		---	
<input type="checkbox"/> 7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.	X		

<input type="checkbox"/> Table 1705.8 - Required Verification and Inspection for Cast-In-Place Deep Foundation Elements			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Observe drilling operations and maintain complete and accurate records for each element.	X		
<input type="checkbox"/> 2. Verify locations of piers and their plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes.	X		
<input type="checkbox"/> 3. For concrete elements, perform additional inspections in accordance with CBC Section 1705.3.			

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<input type="checkbox"/> 1705.9 – Required Verification and Inspection for Helical Pile Foundation			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque, and other pertinent data.	X		

<input type="checkbox"/> 1705.12 – Required Verification and Inspection for Seismic Resistance			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Structural Steel Special Inspections for Seismic Resistance:			CBC 1705.12.1
<input type="checkbox"/> a. Inspection of structural steel in accordance with AISC 341.		---	AISC 341
<input type="checkbox"/> 2. Structural Wood Special Inspection for Seismic Resistance:			CBC 1705.12.2
<input type="checkbox"/> a. Inspection of field gluing operations of elements of the seismic-force resisting system.	X		CBC 1705.12.2. Number 1
<input type="checkbox"/> b. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force resisting system, including wood shear walls, panels, diaphragms, collectors, and hold-downs.*		X	CBC1705.12.2 Number 2 Structural Observation is the preference due to the limitations of certifications available. * Not required where fastener spacing of sheathing is more than 4" on center.
<input type="checkbox"/> 3. Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance:			CBC 1705.12.3

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<input type="checkbox"/> a. Inspection during welding operations of elements of the seismic-force resisting system.		X	
<input type="checkbox"/> b. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force resisting system, including shear walls, diaphragms*, collectors, and hold-downs.		X	CBC1705.12.3 Number 2 Structural Observation is the preference due to the limitations of certifications available. * Not required where fastener spacing of sheathing is more than 4" on center.
<input type="checkbox"/> 4. Designated Seismic Systems Verification:			
<input type="checkbox"/> a. Inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with Section 1705.12.3.		X	
<input type="checkbox"/> 5. Architectural Components Special Inspections For Seismic Resistance:			CBC 1705.12.5
<input type="checkbox"/> a. Inspection during the erection and fastening of exterior cladding and interior and exterior veneer.		X	
<input type="checkbox"/> b. Inspection during the erection and fastening of interior and exterior nonbearing walls.		X	
<input type="checkbox"/> c. Inspection during anchorage of access floors.		X	
<input type="checkbox"/> 6. Mechanical and Electrical Components Special Inspections for Seismic Resistance:			CBC 1705.12.6

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<input type="checkbox"/> a. Inspection during the anchorage of electrical equipment for emergency or standby power systems.		X	
<input type="checkbox"/> b. Inspection during the anchorage of other electrical equipment.		X	
<input type="checkbox"/> c. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units.		X	
<input type="checkbox"/> d. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials.		X	
<input type="checkbox"/> e. Inspection during the installation and anchorage of vibration isolation systems.		X	
<input type="checkbox"/> 7. Storage Racks Special Inspections for Seismic Resistance:			CBC 1705.12.7
<input type="checkbox"/> a. Inspection during the anchorage of storage racks 8 feet or greater in height.		X	
<input type="checkbox"/> 8. Seismic Isolation Systems:			CBC 1705.12.8
<input type="checkbox"/> a. Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system.		X	

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<input type="checkbox"/> 1705.12 - Testing and Qualification for Seismic Resistance			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Concrete Reinforcement Testing and Qualification for Seismic Resistance:			CBC 1705.12.1
<input type="checkbox"/> a. Review certified mill test reports for each shipment of reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connecting special structural walls.		---	
<input type="checkbox"/> b. Verify reinforcement weldability of ASTM A615 reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connecting special structural walls.		---	
<input type="checkbox"/> 2. Structural Steel Testing and Qualification for Seismic Resistance:			CBC 1705.12.1.2
<input type="checkbox"/> a. Test in accordance with the quality assurance requirements of AISC 341.		---	AISC 341
<input type="checkbox"/> 3. Seismic Certification of Nonstructural Components:			CBC 1705.13.2
<input type="checkbox"/> a. Review certificate of compliance for designated seismic system components.		---	

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<input type="checkbox"/> 4. Seismic Isolation Systems:			CBC 1705.13.4
<input type="checkbox"/> a. Test seismic isolation system in accordance with ASCE 7 Section 17.8.		---	ASCE 7 Section 17.8

<input type="checkbox"/> 1705.13 - Required Verification and Inspection for Sprayed Fire-Resistant Materials			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Verify surface condition preparation of structural members.		X	
<input type="checkbox"/> 2. Verify application of sprayed fire-resistant members.		X	
<input type="checkbox"/> 3. Verify average thickness of sprayed fire-resistant materials applied to structural members.		X	
<input type="checkbox"/> 4. Verify density of the sprayed fire-resistant material complies with approved fire-resistant material.		---	CBC 1705.14 Number 3
<input type="checkbox"/> 5. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material.		---	CBC 1705.14 Number 4

<input type="checkbox"/> 1705.15 - Required Verification and Inspection for Mastic and Intumescent Fire-Resistant Coatings			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks.		X	

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<input type="checkbox"/> 1705.16 – Required Verification and Inspection for Exterior Insulation and Finish Systems (EIFS)			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Verify materials, details and installations are per the approved construction documents.		X	
<input type="checkbox"/> 2. Inspection of water-resistive barrier over sheathing substrate.		X	

<input type="checkbox"/> 1705.17 – Required Verification and Field Testing for Fire-Resistant Penetrations and Joints			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Inspect penetration firestop systems.		---	ASTM E2174
<input type="checkbox"/> 2. Inspect fire-resistant joint systems.		---	ASTM E2393

<input type="checkbox"/> 1705.18 – Required Verification and Field Testing for Smoke Control Systems			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> 1. Leakage testing and recording of device locations prior to concealment.		X	
<input type="checkbox"/> 2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control.		X	

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<input type="checkbox"/> Designer Specified Verification, Inspection or Field Testing			
Verification and Inspection	C	P	Notes
<input type="checkbox"/> Other – Designer Specified:		---	