

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

DEPARTMENT OF BUILDING INSPECTION

PERMIT

Permit Number: 031508

This is to certify that Olympia Equity Investors/Al.../Cook Construction
has permission to Bank / Medical Office; Interior Renovations
AT 1200 Congress St 189 A013001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission is procured before this building or part thereof is altered or enclosed-in. **48 HOUR NOTICE IS REQUIRED.**

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. [Signature]
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

[Signature] 1/6/94
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED

Permit No: 03-1508	Issue Date: JAN 07 2004	CBL: 189 A013001
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Location of Construction: 1200 Congress St	Owner Name: Olympia Equity Investors	Owner Address: 50 Monument Sq 2nd Floor	Phone:
Business Name: n/a	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone: 2077722888
Lessee/Buyer's Name: n/a	Phone: n/a	Permit Type: Alterations - Commercial	Zone: B2

Past Use: Commercial	Proposed Use: Commercial; Bank / Medical Office, Interior renovations.	Permit Fee: \$3,621.00	Cost of Work: \$400,000.00	CEO District: 3
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: B Type: 2c	

Proposed Project Description:
Bank / Medical Office; Interior Renovations

Signature: *[Signature]* Signature: *[Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: gg	Date Applied For: 12/12/2003	Zoning Approval
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MIM <input type="checkbox"/></p> <p>Date: <i>12/17/03</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-1508	Date Applied For: 12/12/2003	CBL: 189 A013001
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Location of Construction: 1200 Congress St	Owner Name: Olympia Equity Investors	Owner Address: 50 Monument Sq 2nd Floor	Phone:
Business Name: n/a	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone: (207) 772-2888
Lessee/Buyer's Name: n/a	Phone: n/a	Permit Type: Alterations - Commercial	

Proposed Use: Commercial; Bank / Medical Office, Interior renovations.	Proposed Project Description: Bank / Medical Office; Interior Renovations
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 12/17/2003
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved	Reviewer: Mike Nugent	Approval Date: 01/06/2004
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Fire	Status: Approved with Conditions	Reviewer: Lt. MacDougal	Approval Date: 12/18/2003
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) the sprinkler system and fire alarm system shall be maintained to the appropriate standard			
2) state fire marshall approval required for this project			

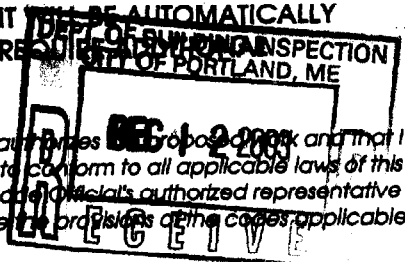
Comments: 12/23/2003-mjn: Faxed Certifications to the Design Professional Need use group and type of construction.
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All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 1198 Congress St		
Total Square Footage of Proposed Structure 5000 sf / floor renovated		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# 189 Block# A Lot# 013	Owner: Olympia Equity	Telephone:
Lessee/Buyer's Name (If Applicable) Norway Bank sub lease to Portland Gastroenterology Assoc	Applicant name, address & telephone: Whipple Callender Architects 551 Congress St Portland 04101	Cost Of Work: \$ 400,000. Fee: \$
Current use: bank / medical office If the location is currently vacant, what was prior use: Endoscopy suite is moving from 3rd fl to 2nd fl, replacing 5000 sf bank office. Medical offices on 3rd fl expand into vacant suite. Approximately how long has it been vacant: _____		
Proposed use: medical office / medical office Project description: interior renovation		
Contractor's name, address & telephone: George Liming @ 772-2088 Allied Cook, PO box 1396, Ptd 04104 george.l@alliedcook.com		
Who should we contact when the permit is ready: John Whipple		
Mailing address: 551 Congress St Portland 04101		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: 775-2696 x104		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.



I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes me to propose work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: *John Whipple* Date: *12/9/05*

This is NOT a permit, you may not commence ANY work until the permit is issued.
If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall



CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE

Designer: Whipple Callender Architects

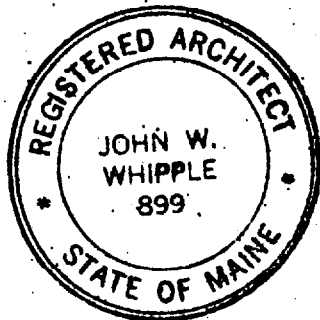
Address of Project 1198 Congress St

Nature of Project Commercial renovation

Date 12/9/03

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

(SEAL)



Signature John Whipple

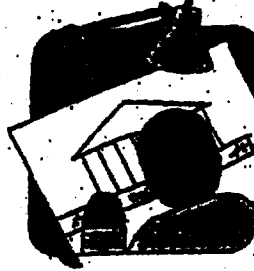
Title principal

Firm Whipple Callender Architects

Address 551 Congress

Ptd 04101

Telephone 775-2696 x 104



CITY OF PORTLAND MAINE

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

TO: Inspector of Buildings City of Portland, Maine
Planning & Urban Development
Division of Housing & Community Services

FROM DESIGNER: John Whipple
Whipple Callender Architects

DATE: 12/9/03

Job Name: Portland Gastroenterology

Address of Construction: 1199 Congress

THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION

Construction project was designed according to the building code criteria listed below:

Building Code and Year BOCA 99 Use Group Classification(s) _____

Type of Construction _____ Bldg. Height _____ Bldg. Sq. Footage _____

Seismic Zone _____ Group Class _____

Roof Snow Load Per Sq. Ft. _____ Dead Load Per Sq. Ft. _____

Basic Wind Speed (mph) _____ Effective Velocity Pressure Per Sq. Ft. _____

Floor Live Load Per Sq. Ft. _____

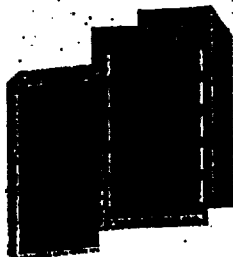
Structure has full sprinkler system? Yes No _____ Alarm System? Yes No _____
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

Is structure being considered unlimited area building: Yes _____ No _____

If mixed use, what subsection of 313 is being considered _____

List Occupant loading for each room or space, designed into this Project.

(Designers Stamp & Signature)



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: Whipple Callender Architects

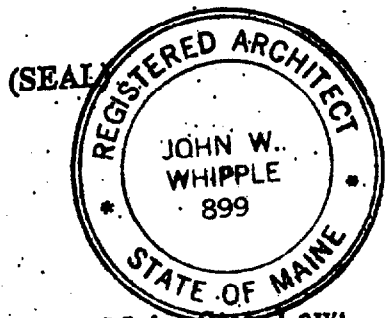
RE: Certificate of Design

DATE: 12/12/03

These plans and/or specifications covering construction work on:

Portland Gastromentology
1198 Congress St.

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition; and local amendments.



Signature John Whipple
Title Partner
Firm Whipple Callender Architects
Address 551 Congress

As per Maine State Law:

\$50,000.00 or more in new construction; repair, expansion, addition, or modification for Building or Structures; shall be prepared by a registered design

THE BOCA NATIONAL BUILDING CODE/1999

1703.2.1 **Research reports:** Supporting data, where necessary to assist in the approval of all materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.

1703.3 **Evaluation and follow-up inspection services:** Prior to the approval of a closed prefabricated assembly, the permit applicant shall submit an evaluation report of each prefabricated assembly. The report shall indicate the complete details of the assembly, including a description of the assembly and the assembly's components, the basis upon which the assembly is being evaluated, test results and similar information, and other data as necessary for the code official to determine conformance to this code.

1703.3.1 **Evaluation service:** The code official shall review evaluation reports from approved sources for adequacy and conformance to the code.

1703.3.2 **Follow-up inspection:** The owner shall provide for special inspections of fabricated items in accordance with Section 1705.2.

1703.3.3 **Test and inspection records:** Copies of all necessary test and inspection records shall be filed with the code official.

1703.4 **Identification:** All required product identification shall be legible and shall be applied to the product or product packaging, as applicable, in a manner that will allow product verification at the time of a field inspection conducted by the code official or special inspector, as applicable, prior to the issuance of a certificate of occupancy by the code official.

For products where the required identification is on the product packaging, the part of the packaging containing the product identification shall be kept at the building site where it can be verified at the time of field inspection. For products where the required identification is concealed from view after the product is installed, the code official shall be notified before the product identification is concealed and the product identification shall not be concealed before approval.

SECTION 1704.0 APPROVALS

1704.1 **Written approval:** Any material, appliance, equipment, system or method of construction meeting the requirements of this code shall be approved in writing within a reasonable time after satisfactory completion of all the required tests and submission of required test reports.

1704.2 **Approved record:** For any material, appliance, equipment, system or method of construction that has been approved, a record of such approval, including all of the conditions and limitations of the approval, shall be kept on file in the code official's office and shall be open to public inspection at all appropriate times.

1704.3 **Labeling:** Products and materials required to be labeled shall be labeled in accordance with the procedures set forth in Sections 1704.3.1 through 1704.3.3.

1704.3.1 **Testing:** An approved agency shall test a representative sample of the product or material being labeled to the relevant standard or standards. The approved agency shall maintain a record of all of the tests performed. The record

shall provide sufficient detail to verify compliance with the test standard.

1704.3.2 **Inspection and identification:** The approved agency shall periodically perform an inspection, which shall be in-plant if necessary, of the product or material that is to be labeled. The inspection shall verify that the labeled product or material is representative of the product or material tested.

1704.3.2.1 **Independent:** The agency to be approved shall be objective and competent. The agency shall also disclose all possible conflicts of interest so that objectivity can be confirmed.

1704.3.2.2 **Equipment:** An approved agency shall have adequate equipment to perform all required tests. The equipment shall be periodically calibrated.

1704.3.2.3 **Personnel:** An approved agency shall employ experienced personnel educated in conducting, supervising and evaluating tests.

1704.3.3 **Label information:** The label shall contain the manufacturer's or distributor's identification, model number, serial number, or definitive information describing the product or material's performance characteristics and approved agency's identification.

1704.4 **Heretofore-approved materials:** The use of any material already fabricated or of any construction already erected, which conformed to requirements or approvals heretofore in effect, shall be permitted to continue, if not detrimental to life, health or safety of the public.

SECTION 1705.0 SPECIAL INSPECTIONS

1705.1 **General:** The permit applicant shall provide special inspections where application is made for construction as described in this section. The special inspectors shall be provided by the permit applicant and shall be qualified and approved for the inspection of the work described herein.

Exceptions

1. Special inspections are not required for work of a minor nature or where warranted by conditions in the jurisdiction.
2. Special inspections are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. Special inspections are not required for occupancies in Use Group R-3 and occupancies in Use Group U that are accessory to a residential occupancy including, but not limited to, those listed in Table 312.1.

1705.1.1 **Building permit requirement:** The permit applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge in accordance with Section 114.2.1 as a condition for permit issuance. This statement shall include a complete list of materials and work requiring special inspection by this section, the inspections to be performed and a list of the

STRUCTURAL TESTS AND INSPECTIONS

individuals, *approved agencies* and firms intended to be retained for conducting such inspections.

1705.1.2 Report requirement: Special inspectors shall keep records of all *inspections*. The special inspector shall furnish *inspection reports* to the code official, and to the *registered design professional* in responsible charge. All discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the code official and to the *registered design professional* in responsible charge prior to the completion of that phase of the work. A final report of *inspections* documenting completion of all required *special inspections* and correction of any discrepancies noted in the *inspections* shall be submitted prior to the issuance of a certificate of occupancy. Interim reports shall be submitted periodically at a frequency agreed upon by the permit applicant and the code official prior to the start of work.

1705.2 Inspection of fabricators: Where fabrication of structural loadbearing members and assemblies is being performed on the premises of a fabricator's shop, *special inspection* of the *fabricated items* shall be required. The *fabricated items* shall be inspected as required by this section and as required elsewhere in this code.

1705.2.1 Fabrication procedures: The special inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures which provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved drawings, project specifications and referenced standards. The special inspector shall review the procedures for completeness and adequacy relative to the code requirements for the fabricator's scope of work.

1705.2.2 Procedures implementation: The special inspector shall verify that the fabricator is properly implementing the fabrication and quality control procedures outlined in Section 1705.2.1.

Exception: *Special inspections* as required by Section 1705.2 shall not be required where the fabricator maintains an agreement with an *approved independent inspection or quality control agency* to conduct periodic in-plant *inspections* at the fabricator's plant, at a frequency that will assure the fabricator's conformance to the requirements of the *inspection agency's* approved quality control program.

1705.3 Steel construction: The *special inspections* for steel elements of buildings and structures shall be as required by Sections 1705.3.1 through 1705.3.3.

1705.3.1 Inspection of steel fabricators: The permit applicant shall provide *special inspection* of steel *fabricated items* in accordance with the provisions of Section 1705.2.

Exception: *Special inspection* of the steel fabrication process shall not be required where the fabricator does not perform any welding, thermal cutting or heating operation of any kind as part of the fabrication process. In such cases, the fabricator shall be required to submit a detailed procedure for material control which demonstrates the fabricator's ability to maintain suitable records and procedures during the fabrication process. The

material specification, grade and mill test reports for the main stress-carrying elements and bolts are capable of being determined.

1705.3.2 Material receiving: All main stress-carrying elements, welding material and bolting material shall be inspected for conformance to Table 1705.3.2.

1705.3.3 Erection: *Special inspections* are required for bolts, welding and details as specified in Sections 1705.3.3.1 through 1705.3.3.3.

1705.3.3.1 Installation of high-strength bolts: *Inspection* shall be as specified in Section 9 of the RCSC *Specification for Structural Joints Using A325 or A490 Bolts* listed in Chapter 35.

Table 1705.3.2
INSPECTION FOR STEEL MATERIALS

Material	Inspection required	Reference ^a for criteria
Bolts, nuts, washers	1. Material identification markings. 2. Conformance to ASTM standards specified by the design engineer. Manufacturer's designation (certificate of compliance) is required.	Applicable ASTM material specifications; AISC ASD, Section A3.4; AISC LRFD, Section A3.3
Structural steel	1. Material identification markings. 2. Conformance to ASTM standards specified in the approved plans and specifications.	ASTM A6 or ASTM A588 Provide certified test reports in accordance with ASTM A6 or ASTM A588
Weld filler materials	1. Conformance to AWS specification as specified in the approved plans and specifications. Manufacturer's designation (certificate of compliance) is required.	AISC ASD, Section A3.6; AISC LRFD, Section A3.5

Note a. The specific standards referenced are those listed in Chapter 35.

1705.3.3.2 Welding: Weld *inspection* shall be in compliance with Section 6 of AWS D1.1 listed in Chapter 35. Weld inspectors shall be certified in accordance with AWS D1.1 listed in Chapter 35.

1705.3.3.2.1 Welding of the structural seismic-resisting system: Welding of the structural seismic-resisting system of buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7, shall be inspected in accordance with Sections 1705.3.3.2.2 and 1705.3.3.2.3. Each complete penetration groove weld in joints and splices shall be tested for the full length of the weld either by ultrasonic testing or by other approved methods, for special moment frames and eccentrically braced frames.

Exception: The nondestructive testing rate for welds made by an individual welder is permitted to be reduced to 25 percent of the welds, with the approval of the *registered design professional* responsible for the structural design, provided the weld inspection reject rate is 5 percent or less.

1705.3.3.2.2 Column splice welds: Column splice welds, which are partial penetration groove welds, shall

THE BOCA NATIONAL BUILDING CODE/1999

be tested by ultrasonic testing or other approved methods at a percentage rate established by the *registered design professional* responsible for the structural design. All partial penetration column splice welds designed for axial or flexural tension from seismic forces shall be tested.

1705.3.3.2.3 Base metal testing: Base metal having a thickness more than 1½ inches (38 mm) and subject to through-thickness weld shrinkage strains shall be ultrasonically tested for discontinuities behind and adjacent to the welds after joint welding. Any material discontinuities shall be evaluated based on the criteria established in the *construction documents* by the *registered design professional* responsible for the structural design.

1705.3.3.3 Details: The special inspector shall perform an *inspection* of the steel frame to verify compliance with the details shown on the approved *construction documents*, such as bracing, stiffening, member locations and proper application of joint details at each connection.

1705.4 Concrete construction: The *special inspections* for concrete elements of buildings and structures and concreting operations shall be as required by Sections 1705.4.1 through 1705.4.7.

Exception: *Special inspections* shall not be required for:

1. Concrete footings of buildings three stories or less in height which are fully supported on earth or rock.
2. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (0.11 kg/mm²).
3. Plain concrete foundation walls constructed in accordance with Table 1812.3.2.
4. Concrete patios, driveways and sidewalks, on grade.

1705.4.1 Materials: In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapter 3 of ACI 318 listed in Chapter 35, the code official shall require testing of materials in accordance with the appropriate standards and criteria for the material in Chapter 3 of ACI 318 listed in Chapter 35. Weldability of reinforcement, except that which conforms to ASTM A706 listed in Chapter 35, shall be determined in accordance with the requirements of Section 1906.5.2.

1705.4.2 Installation of reinforcing and prestressing steel: The location and installation details of reinforcing and prestressing steel shall be *inspected* for compliance with the approved *construction documents* and ACI 318 (such as Sections 7.4, 7.5, 7.6 and 7.7) listed in Chapter 35. Welding of reinforcing of the structural seismic-resisting system shall be *inspected* for buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.4.3 Formwork: Forms for concrete, if used, shall be *inspected* for compliance with Section 6.1 of ACI 318 listed in Chapter 35, and with any additional design requirements indicated on the approved *construction documents*. *Inspection* of form removal and reshoring shall be conducted to

verify compliance with Section 6.2 of ACI 318 listed in Chapter 35.

1705.4.4 Concreting operations: During placing and curing of concrete, the *special inspections* listed in Table 1705.4.4 shall be performed.

Table 1705.4.4
REQUIRED INSPECTIONS DURING CONCRETING

Required inspection	Reference ^a for criteria
1. Evaluation of concrete strength, except as exempted by Section 1908.3.1(3) of this code.	ACI 318 Section 5.8
2. Inspection for use of proper mix proportions and proper mix techniques.	ACI 318 Chapter 4, Sections 5.2, 5.3, 5.4 and 5.8
3. Inspection during concrete placement, for proper application techniques.	ACI 318 Sections 5.9 and 5.10
4. Inspection for maintenance of specified curing temperatures and techniques.	ACI 318 Sections 5.11, 5.12 and 5.13

Note a. ACI 318 listed in Chapter 35.

1705.4.5 Inspection during prestressing: *Inspection* during the application of prestressing forces shall be performed to determine compliance with Section 18.18 of ACI 318 listed in Chapter 35.

1705.4.5.1 Inspection during grouting: In buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7, *inspection* during the grouting of bonded prestressing tendons in the structural seismic-resisting system shall be performed.

1705.4.6 Manufacture of precast concrete: The manufacture of precast concrete, as required by Section 1705.2, shall be subject to a quality control program administered by an *approved agency*.

1705.4.7 Erection of precast concrete: Erection of precast concrete shall be *inspected* for compliance with the approved plans and erection drawings.

1705.5 Masonry construction: The *special inspections* listed in Table 1705.5 shall be required for masonry construction where masonry is designed in accordance with ACI 530/ASCE 5/TMS 402 listed in Chapter 35.

1705.6 Wood construction: *Special inspections* of the fabrication process of wood structural elements and assemblies shall be in accordance with Section 1705.2. *Special inspection* is required for nailing, bolting, structural gluing or other fastening of the structural seismic-resisting system of buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.7 Prepared fill: The *special inspections* for prepared fill shall be as required by Sections 1705.7.1 through 1705.7.3. The approved report, required by Section 1804.1, shall be used to determine compliance.

1705.7.1 Site preparation: Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the approved report.

Table 1705.5
SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION

Inspection or test	Referenced ^a criteria	
	ACI 530/ ASCE 5/ TMS 402	ACI 530.1/ ASCE 6/ TMS 602
1. Material		Sec. 2.3
2. Masonry strength		Sec. 1.4
b. Application of mortar and grout; installation of masonry units		Sec. 3.2 Sec. 3.5
d. Protection of masonry during cold weather (temperature below 40 degrees F.) or hot weather (temperature above 100 degrees F.)		
4. Inspection of welding of reinforcement, grouting, consolidation and reconsolidation for buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.	Note b	Note b

Notes a. The specific standards referenced are those listed in Chapter 35.
Notes b. Referenced criteria not applicable.

1705.7.2 During fill placement: During the placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thicknesses comply with the approved report.

1705.7.3 Evaluation of in-place density: The special inspector shall determine, at the approved frequency, that the in-place dry density of the compacted fill complies with the approved report.

1705.8 Pile foundations: *Special inspections* of pile foundations are required as provided for in Section 1816.13 of this code.

1705.9 Pier foundations: *Special inspection* is required for pier foundations of buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.10 Wall panels and veneers: *Special inspection* is required for exterior and interior architectural wall panels and the anchoring of veneers for buildings assigned to Seismic Performance Category E, in accordance with Section 1610.1.7.

1705.11 Mechanical and electrical components: Mechanical and electrical components that are located in buildings assigned to Seismic Performance Category E shall be inspected, tested and certified as required by this section, in accordance with Section 1610.1.7.

1705.11.1 Component inspection: *Special inspection* is required for the installation of the following components where the component has a performance criteria factor of 1.0 or 1.5 in accordance with Section 1610.6.4.

1. Equipment using combustible energy sources.
2. Electrical motors, transformers, switchgear unit substations and motor control centers.
3. Reciprocating and rotating-type machinery.
4. Piping distribution systems, 3 inches and larger.
5. Tanks, heat exchangers and pressure vessels.

1705.11.2 Component and attachment testing: The component manufacturer shall test or analyze the component and the component mounting system or anchorage for the design forces in Section 1610.6.4 for those components having a performance criteria factor of 1.0 or 1.5 in accordance with Section 1610.6.4. The manufacturer shall submit a certificate of compliance for review and acceptance by the *registered design professional* responsible for the design, and for approval by the code official. The basis of certification shall be by test on a shaking table, by three-dimensional shock tests, by an analytical method using dynamic characteristics and forces from Section 1610.6.4 or by more rigorous analysis. The special inspector shall inspect the component and verify that the *label*, anchorage or mounting conforms to the certificate of compliance.

1705.11.3 Component manufacturer certification: Each manufacturer of equipment to be placed in a building assigned to Seismic Performance Category E, in accordance with Section 1610.1.7, where the equipment has a performance criteria factor of 1.0 or 1.5 in accordance with Section 1610.6.4, shall maintain an approved quality control program. Evidence of the quality control program shall be permanently identified on each piece of equipment by a label.

1705.12 Sprayed cementitious and mineral fiber fireresistive materials: Special inspections for sprayed cementitious and mineral fiber fireresistive materials applied to structure elements shall be performed in accordance with Sections 1705.12.1 through 1705.12.5. Special inspections shall be based upon the fireresistance design as designated in the approved construction documents.

1705.12.1 Structure element surface conditions: The surfaces of all structure elements to be sprayed shall be inspected before the application of the sprayed fireresistive material to determine that such surfaces were prepared in accordance with the approved fireresistance design and the manufacturer's approved written instructions.

1705.12.2 Application: The sprayed fireresistive materials and the surfaces of the structure elements to be sprayed shall have a minimum ambient temperature before and after application until cured as specified in the manufacturer's approved written instructions. The area for spray application shall be ventilated during and after application as required by the manufacturer's approved written instructions to allow the sprayed fireresistive materials to cure.

1705.12.3 Thickness: The average thickness of the cured sprayed fireresistive material applied to structure elements shall not be less than the thicknesses required by the approved fireresistance design. Thickness shall be determined by an approved method using samples of the sprayed fireresistive materials selected in accordance with Sections 1705.12.3.1 and 1705.12.3.2.