

The Inn at Cedars

Program of Structural Tests and Special Inspections
Foley Buhl Roberts & Associates, Inc.

<u>Project</u>	The Inn at Cedars (H.U.D. Project 024- 43094)	
<u>Location</u>	649 Ocean Ave., Portland, ME	
<u>Owner</u>	JHA Services, Inc.	
<u>Owner's Address</u>	649 Ocean Avenue Portland, ME 04112	Tel - 207-772-5456 Fax - 207-772-6038
<u>Architect of Record</u>	Constantine Tsomides Tsomides Associates 389 Elliot Street Newton Upper Falls, MA 02464	Tel - 617-969-4774 Fax - 617-969-4793
<u>Structural Engineer of Record (SER)</u>	Jonathan D. Buhl, P.E. Foley Buhl Roberts & Associates, Inc. 2150 Washington Street Newton, MA 02462	Tel - 617-527-9600 Fax - 617-527-9606
<u>Testing Agency (TA)</u> (Special Inspector)	To Be Determined	Tel - xxx-xxx-xxxx Fax - xxx-xxx-xxxx
<u>Geotechnical Engineer (GE)</u>	James Weaver, P.E. Haley & Aldrich, Inc. 75 Washington Ave., Suite 203 Portland, ME 04101-2617	Tel - 207-482-4600 Fax - 207-775-7666

This program of structural tests and inspections is submitted as a condition for issuance of a building permit in accordance with the 2003 International Building Code.

The firms, agencies, or individuals noted above (hereafter referred to collectively as agents) will perform the structural tests and inspections under the direction of the SER.

The complete set of Contract Documents (Drawings and Specifications) that accompany the application for building permit is to be considered attached to this program as reference material.

This program does not relieve the Contractor of their responsibility to conduct the work in accordance with the requirements of the Construction Documents, the approved Shop Drawings and the 2003 International Building Code.

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Construction Categories: The following construction categories, if checked, are included in the program of structural tests and inspections for this project. Specific tests and inspections required for each designated category are listed on the page noted opposite the category.

<u>Construction Category</u>	<u>Page</u>	<u>Construction Category</u>	<u>Page</u>
<input checked="" type="checkbox"/> Earthwork	<u>3</u>	<input type="checkbox"/> Structural Precast Concrete	<u> </u>
<input checked="" type="checkbox"/> In-situ Bearing Strata	<u>3</u>	<input checked="" type="checkbox"/> Masonry	<u>5-6</u>
<input checked="" type="checkbox"/> Controlled Fill	<u>3</u>	<input checked="" type="checkbox"/> Structural Steel	<u>7</u>
<input type="checkbox"/> Underpinning	<u> </u>	<input checked="" type="checkbox"/> Steel Joists	<u>7</u>
<input type="checkbox"/> Excavation support	<u> </u>	<input checked="" type="checkbox"/> Steel Deck	<u>7</u>
<input type="checkbox"/> Drilled Pier Foundations	<u> </u>	<input type="checkbox"/> Shear Connectors	<u> </u>
<input checked="" type="checkbox"/> Cast-In-Place Concrete	<u>4</u>	<input checked="" type="checkbox"/> Wood Framed Construction	<u>8</u>
<input type="checkbox"/> Post-Tensioned Concrete	<u> </u>	<input checked="" type="checkbox"/> Prefabricated Wood Trusses	<u>8</u>
<input type="checkbox"/>	<u> </u>		

Performance Specifications: The following construction components, if checked, are designated in the Contract Documents on the basis of a performance specification to be designed by the Contractor or Subcontractor's registered professional engineer. The design of these structural elements or systems will be reviewed by the SER and their construction is included in the program for structural tests and inspections.

<u>Construction Component</u>	<u>Page</u>
<input type="checkbox"/> Structural Precast Components	<u> </u>
<input type="checkbox"/> Post-Tensioning Steel	<u> </u>
<input checked="" type="checkbox"/> Structural Steel Connections	<u>7</u>
<input type="checkbox"/> Metal Buildings	<u> </u>
<input type="checkbox"/> Glue-Laminated Wood Construction	<u> </u>
<input type="checkbox"/> Cold-Formed Metal Framing	<u> </u>
<input type="checkbox"/> Steel Stairs & Handrails/Guardrails	<u> </u>
<input type="checkbox"/> Skylights	<u> </u>
<input checked="" type="checkbox"/> Metal Plate Connected Wood Trusses	<u>8</u>

Reports: Test and inspection reports prepared by the SER, TA, and GE will be collected and maintained by the SER and distributed, according to the procedures established by the Building Official. Prior to the issuance of a certificate of occupancy the SER will submit a final report to the Architect, to be forwarded to the Owner and Building Official in accordance with the 2003 International Building Code.

Prepared by the Structural Engineer of Record:

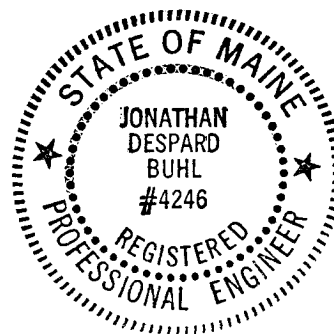
Name: Jonathan D. Buhl, P.E.
P.E. # 4246 (Structural)

Signature:



Firm: Foley Buhl Roberts & Associates, Inc.

Date: February 16, 2007



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Excavation, Backfill, and Compaction (Section 02220)

Item	Agent	Scope
1. Excavation	GE	Inspect existing sub-soils and groundwater conditions during building excavation.
2. Bearing Strata	GE	Inspect the in-situ bearing strata and compacted structural fill bearing strata for footings and slabs cast on grade for conformance with the Geotechnical Report, Spec. Section 02220 and Contract Documents.
3. Structural Fill	TA	Inspect and test compacted structural fill for conformance with the Geotechnical Report, Spec. Section 02220 and Contract Documents.

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Cast-in-Place Concrete Construction (Section 03300)

Item	Agent	Scope
1. Mix Design	SER	Review mix design for each required strength of concrete for conformance with Spec. Section 03300 and Contract Documents.
2. Materials Certification	SER, TA	Review for conformance with Spec. Section 03300 and Contract Documents.
3. Batching Plant	TA	Review methods for batching and mixing, and quality control procedures at the batching plant. Conduct one (1) initial visit to the batching plant at the start of production and at least one (1) additional visit during the production period. Additional visits to the batching plant may be requested by the SER, if necessary.
4. Reinforcement Installation	TA	Inspect all reinforcement for grade, size, quantity, spacing, condition, cover and placement, for conformance with the approved Shop Drawings and Contract Documents.
5. Formwork	TA	Inspect for general configuration, cleanliness, and cover to reinforcement.
6. Concrete Placement	TA	Observe concrete placement operations. Verify conformance with Spec. Section 03300, including cold weather and hot weather placement procedures.
	SER	Review cold weather and hot weather placement procedures submitted by the Contractor.
7. Testing and Evaluation of Concrete Strength	TA	Sample and test concrete, in accordance with Spec. Section 03300 and Contract Documents.
	SER	Review test results for concrete.
8. Curing and Protection	TA	Observe curing procedures and protection of concrete from high/low temperatures and rapid loss of moisture. Verify conformance with Spec. Section 03300 and Contract Documents.

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Masonry Construction (04200)

Item	Agent	Scope
1. Review of Tests Submitted By Contractor for Masonry Units/Masonry Assemblages	SER	Review tests submitted by Contractor covering each class of masonry unit and type of masonry assemblage, including of mortar, grout, and prism tests. Verify conformance with Spec. Section 04200 and Contract Documents.
2. Materials Certification	SER, TA	Review concrete masonry units, masonry veneers, precast concrete units, mortar and grout materials to be used in the masonry construction for conformance with Spec. Section 04200 and Contract Documents.
3. Testing & Evaluation of Mortar & Grout Strength	TA	Sample and test mortar and grout used in field for masonry construction for conformance with Spec. Section 04200, and Contract Documents.
	SER	Review test results for mortar and grout.
4. Proportioning, Mixing, and Consistency of Mortar & Grout	TA	Observe field procedures for proportioning and mixing of the mortar and grout to be used in the masonry construction.
5. Masonry Installation	TA	Inspect and report on installation of masonry units for general configuration and placement.
6. Anchorage	TA	Inspect type, spacing, and placement of masonry anchors and ties for conformance with Spec. Section 04200 and Contract Documents.
7. Reinforcement Installation	TA	Inspect reinforcement for grade, size, quantity, spacing, condition, cover, and placement, for conformance with the approved Shop Drawings and Contract Documents.
8. Grouting Operations	TA	Inspect cells of masonry units for cleanliness prior to grouting. Observe partial/full grouting procedures for conformance with Spec. Section 04200, and Contract Documents.

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Masonry Construction (04200) (continued)

9. Weather Protection	TA	Observe protection of masonry against cold and hot weather. Verify conformance with Spec. Section 04200 and Contract Documents.
10. Anchorage of Exterior Wall Masonry Veneer	TA	Inspect type, size, spacing, and placement of approved anchorage to adjacent back-up framing for conformance with Spec. Section 04200 and Contract Documents.

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Structural Steel/Steel Joist/Steel Deck Construction (Sections 05120, 05210 and 05300)

Item	Agent	Scope
1. Fabricator Certification/ Quality Control Procedures	TA	Review and observe each Fabricator's detailed fabrication and quality control procedures for material, bolting, welding, surface preparation, and shop painting. If applicable, review reports by fabricator's approved independent inspection or quality control agency.
2. Shop Fabricated Members	TA	Inspect a representative number of shop fabricated members for conformance with Spec. Section 05120, Section 05210, the approved Shop Drawings and Contract Documents.
3. Material Certification	SER, TA	Review for conformance with Spec. Sections 05120, 05210, 05300 and Contract Documents.
4. Field Bolting	TA	Inspect and test field bolted connections for conformance with Spec. Section 05120, the approved Shop Drawings and Contract Documents. Review grade and size of bolts, and installation of torsion-controlled bolts.
5. Field Welding	TA	Inspect and test field welded connections for conformance with Spec. Section 05120, Section 05210, approved Shop Drawings and Contract Documents. Check welder qualifications. Visually check fillet welds and test partial/full penetration welds using applicable non-destructive methods.
6. Structural framing, Details and Assemblies	TA	Inspect grade of steel, size, placement, bridging and connection details for conformance with Spec. Section 05120, Section 05210, the approved Shop Drawings and Contract Documents.
7. Steel Deck	TA	Inspect steel deck type, gage, depth, width, and placement for conformance with Spec. Section 05300, the approved Shop Drawings and Contract Documents. Check welder qualifications. Visually check deck placement, laps, all welds to supports and longitudinal edges, all sidelap attachments, screws or other mechanical fasteners.

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Rough Carpentry and Prefabricated Wood Truss Construction (Sections 06100 and 06190)

Item	Agent	Scope
1. Metal Plate Connected Wood Truss and Connection Design	SER	Review supplier's design of metal plate connected wood roof trusses, connections, ties and anchors for compliance with Spec. Section 06190, and Contract Documents.
2. Material Certification	SER, TA	Review materials used; including wood grade and species, plywood type and classification, metal connectors, etc., for conformance with Spec. Sections 06100, 06190, and Contract Documents.
3. Wood Framed Construction	TA	Inspect all wood framed construction; including metal plate connected wood roof trusses, blocking, bracing, bridging, sheathing, framing, nailing and metal connectors for conformance with Specification Sections 06100, 06190, the approved Shop Drawings and Contract Documents.