GIG HARBOR
"THE MARITIME CITY"

BUILDING AND FIRE SAFETY SERVICES

SPECIAL INSPECTION AND TESTING SCHEDULE

Project Name:	**Permit Number:**	**Date:**
Project Address:		
Special Inspector/Agency:		**Phone:**

In addition to the regular inspections required by GHMC Title 15.06, the owner or design professional in responsible charge, acting as the owner's agent, shall employ one or more special inspectors who shall provide inspections during construction on the types of work listed herein. For exceptions and detailed information refer to the Building Code chapter on Structural Tests and Inspections and the referenced recognized standards.

Concrete: During the taking of test specimens and placing of reinforced concrete: Ref.: ASTM C 94, ACI 318

Plant Inspection – ACI 318	Yield, Wt. Per Cu. Ft. – ASTM C138
Comp. Test Specimens – ASTM C31	Air Content – ASTM C138; C173 or C231
Comp. Tests – ASTM C39	Slump – ASTM C143
Sampling Fresh Concrete – ASTM C172	Temperature – ASTM C1064

Bolts Installed in Concrete: Prior to and during the placement of concrete around bolts when allowable stress increases are utilized.

Special Moment-Resisting Concrete Frame: For moment frames resisting design seismic loads in structures, the special inspector shall provide reports to the responsible structural designer and shall provide continuous inspection of the placement of the reinforcement and concrete.

Reinforcing Steel and Prestressing Steel Tendons: Ref.: ACI 318. During all stressing and grouting of tendons in prestressed concrete. During placing of reinforcing steel and prestressing tendons for all concrete required to have special inspection by Item 1.

Structural Welding: During the welding of any member or connection that is designed to resist loads and forces required by code. Ref.: AWS D1, ASTM A6 or A568.

- **Special Moment-Resisting Steel Frames:** During the welding of special moment-resisting steel frames including nondestructive testing as required elsewhere in the building code. Ref.: AWS D1.1, D1.3.
- **Welding of Reinforcing Steel:** During the welding of reinforcing steel. Ref.: AWS D1.4, ACI 318.

High Strength Bolting: The inspection of high-strength A-325 and A-490 bolts shall be in accordance with recognized standards and specification for structural joints using ASTM A325 or A490 bolts-load and resistance factor design, research council of structural connections, section 1701.5, item 6. Ref.: AISC ASD Sec. A3.4, AISC LRFD Sec. A3.3, AISC LRFD Sec. M2.5.

Structural Masonry: For masonry other than fully grouted and open-end hollow unit masonry, during preparation and taking of required prisms or test specimens, placing of all masonry units, placement of reinforcement, inspection of grout space, immediately prior to closing of cleanouts, and during all grouting operations. ACI 530, ASCE 5, ASCE 6, TMS 402, TMS 602.

Reinforced Gypsum Concrete: When cast-in-place class B gypsum concrete is being mixed and placed.

Insulating Concrete Fill: During the application of insulating concrete fill when used as part of a structural system.

Spray-Applied Fire-Resistive Materials: As required by building code Chapter 17 and the standards referenced therein. Ref.: ASTM E605.

Pilings, Drilled Piers and Caissons: During driving, and testing of piles and construction of cast-in-place drilled piles or caissons. See items 1 and 4 for concrete and reinforcing steel inspection.

Shotcrete: During the taking of test specimens and placing of all shotcrete and as required by Chapter 19 of the Building Code. ACI 318.

Smoke Control Systems: During erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location.

Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements, and detection and control verification.

Structural Epoxies: During the placement of structural epoxies used to resist structural loads and forces required by the Building Code, or as required by the Building Official.

Structural Wood:

- Sheer nailing inspection
- Prefabricated and/or field fabricated assembly inspection
- Component testing and sampling

Exterior Insulation and Finish Systems (EIFS): During the application of all EIFS systems.

Special Cases: Work that, in the opinion of the building official involves unusual hazards or conditions.
(Attach additional sheet as needed).

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Structural Observation Required: Structural observation shall be required when one of the following conditions exists:

- The structure is defined as Occupancy Category I, II or III
- The structure is required to comply with the high-rise requirements of the building code
- When so designated by the design professional in responsible charge
- When observation is specifically required by the building official for unusual lateral force resisting structures or irregular structures as defined in the Building Code.