CITY OF MERCER ISLAND
**COMMUNITY PLANNING & DEVELOPMENT**
# RESIDENTIAL CODE COVERSHEET

(206) 275-7605 WWW.MERCERISLAND.GOV/CPD
EPERMIT.TECH@MERCERISLAND.GOV
DOCUMENTS ARE SUBJECT TO PUBLIC DISCLOSURE AS REQUIRED BY RCW 42.56

**INSPECTION REQUESTS**
*CONSTRUCTION* (206) 275-7730
*FIRE INSPECTION* eastsidefire-rescue.org

**SF1** BUILDING PERMIT NUMBER

**PROJECT NAME:** RUDD RESIDENCE ADDITIONS AND ALTERATIONS
**PROJECT ADDRESS:** 8032 SE 57TH ST, MERCER ISLAND WA 98040

## PROJECT DESCRIPTION
This scope should match the Building Permit Application Form

Additions and alterations to existing residence. Expansion of existing ground floor and new second floor.

## PROJECT CONTACT INFORMATION
The Applicant shall provide the following information for each type of contact (Engineer and Geotech dependent on scope)

| | | |
|---|---|---|
| Permitting Contact: David Pelletier | Email: dpelletier@pelletierschaar.com | Phone: 360.572.4971 |
| Construction Contact: Jeff Rudd | Email: jeffrudd@comcast.net | Phone: 425.830.0373 |
| Engineer: CDE Inc. | Email: alex12@cdengr.com | Phone: 425.343.7517 |
| Geotech: Nelson Geotechnical Associates Inc. | Email: dannyo@nelsongeotech.com | Phone: 425.486.1669 |

## DEFERRED SUBMITTALS
The Applicant is required to indicate all deferred submittals / shop drawings for submittal to the City for review and approval prior to item fabrication / construction. All deferred submittals require pre-approval from the City during the permit review process.

☒ No Deferred Submittals - all design included in these construction documents

☐ Connector plate wood roof trusses
☐ Metal joist / metal trusses
☐ Premanufactured structures (stairs, etc.)
☐ Exterior cladding
☐ Window wall / curtain wall construction
☐ Other:

## ENERGY CODE AND WHOLE HOUSE VENTILATION INFORMATION
Indicate where the following information is located within the drawing set and select one box per line below.

**Building Envelope-** Define all components of the thermal envelope. Include U-factors, insulation and moisture control *WSEC Table 402.1.2* Sheet: G0.1

**Energy Credit Information-** Include complete information on plan for options selected and equipment specified *WSEC Tables 406.2 and 406.3* Sheet: G0.1

☐ No Credits Required ☒ Small Dwelling Unit ☐ Medium Dwelling Unit ☐ Large Dwelling Unit ☐ < 500 sf addition

**New Construction Tests-** The following are mandatory testing and reporting requirements of WSEC Ch 4 for new construction

● Certificate of Energy Efficiency *WSEC R401.3* ● Duct Leakage Testing *WSEC R403.3.5* ● Air Leakage Testing *WSEC R402.4.1.2*

☐ Air Leakage test report not to exceed 5 changes per hour *WSRC 1505.4.1.2* ☒ Air Leakage per selected energy credits

**Whole House Ventilation-** Specify system type below and include all system requirements on sheet noted *WSRC Section M1505.4* Sheet: A1.1

☒ Exhaust fans *WSRC 1505.4.1.2* ☐ Supply fans *WSRC 1505.4.1.3* ☐ Balanced system *WSRC 1505.4.1.4* ☐ Other permitted system

## REQUIRED SPECIAL INSPECTIONS
The Applicant shall complete the following section. One of the options below must be selected prior to permit intake. Chapter 17 of the International Building Code (IBC) requires Special Inspection to evaluate components of construction that are critical to the safety of the structure. The project owner shall be responsible for contracting with and hiring the Special Inspection agents. Structural Special Inspectors are required to be certified by the Washington Association of Building Officials (WABO). Geotechnical Special Inspectors shall be a licensed Washington State Professional Engineer. Where Special Inspection is required, all reports shall be emailed to InspectionReports@mercergov.org **and** provided to the City Building Inspector at time of the City inspection.

Inspections by the City Building Inspector are required in addition to the Special Inspection.
**Do not cover or conceal any work prior to the City inspection.**

**PRESCRIPTIVE DESIGN**
☐ This project is entirely non-structural, or is designed following the prescriptive gravity and lateral provisions of the International Residential Code (IRC) only. There are no engineered components that have been designed to the IBC or its referenced standards, e.g. American Concrete Institute (ACI), National Design Specifications (NDS), etc. No Special Inspections are required by IRC.

**MINOR STRUCTURAL WORK**
☐ This project has limited engineered design as permitted by IRC Section R301.1.3 and the construction is of a minor nature as excepted by IBC Section 1704.2. This option must be reviewed and accepted by the building official prior to permit issuance and shall be reevaluated for project revisions and deferred submittals.

**ENGINEERED DESIGN**
☒ This project is engineered to the provisions of the IBC and its referenced standards. Per IBC Chapter 17, a *Statement of Special Inspection* shall be completed by the Registered Design Professional (RDP) in responsible charge. The *Statement of Special Inspections* on coversheet SF2 has been reviewed and completed by the RDP.

## REQUIRED STRUCTURAL OBSERVATION
*Structural Observation* may be required by the Registered Design Professional (RDP) in responsible charge or by the building official per IBC Section 1704.6.1. The RDP shall submit written statements to the building official prior to the commencement of observations (identifying frequency and extent of observations) and at the conclusion of work included in the permit (describing the site visit(s) performed and identifying any deficiencies that have not been resolved). Submit all statements to inspectionreports@mercerisland.gov

*Structural Observation* for this project is required by the:
☐ Registered Design Professional ☐ Building Official *(City use only)*

## GEOTECHNICAL INFORMATION
Per Mercer Island City Code, designated geologic hazard areas require a geotechnical report and a statement of risk from a geotechnical professional be included with the project submittal. Refer to MICC 19.07.160 (B)(3) for statement of risk, and City GIS at https://www.mercerisland.gov/igs for hazard mapping. Some proposals may require a site restoration bond.

**NO GEOTECHNICAL REPORT REQUIRED**
☐ No geotechnical report is required due to either: 1. The absense of geologic hazards on site or 2. Scope of project does not include foundation construction, excavation, or alterations to a hazard (if a report is available or referenced it should be provided)

**GEOTECHNICAL REPORT IS REQUIRED AND INCLUDED WITH SUBMITTAL**
☒ A geotechnical report is required and has been provided. All construction must comply with the recommendations of the geotechnical report, and a copy of the report and any other geotechnical information must be kept on site at all times.

| | | |
|---|---|---|
| Geotechnical Engineer: Nelson Geotech | Phone: 425.486.1669 | Project or report #: 1482723 |

**SEASONAL DEVELOPMENT LIMITATION -** MICC 19.07.160(F)(2) limits certain development between Oct 1 and Apr 1
☐ An application for Seasonal Development Limitation Waiver will be submitted and approved prior to any such activity.
☐ No grading or excavation will occur between October 1st and April 1st. SDL waiver not applicable.

The City requires an applicant paid peer review when the Building Official determines any of the following are present:
- Advanced excavation or foundation systems, i.e. soil nail walls, tieback shoring systems, etc.
- Foundation systems not supported on competent soils, i.e. over-excavation, soil preloading, etc.
- Projects that require slope stability analysis or those which could pose a significant risk to adjacent properties or structures.
- Where liquifaction presents significant risk (at waterfront or other high water table with seismic mapping)

TO BE COMPLETED BY APPLICANT
TO BE COMPLETED BY CITY

## GENERAL REQUIREMENTS FOR ☐ NEW SINGLE FAMILY BUILD ☐ DEMOLITION/REBUILD ☒ ADDITION ☒ REMODEL ☐ REPAIR ☐ DOCK ☐ SITE IMPROVEMENTS ☐ SEISMIC RETRO
Construction of the project shall be from ***approved plans only***. No deviation from the approved project plans is allowed without prior approval from the City of Mercer Island.
Approved plans must be kept on site and maintained in good condition.

☑ Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including:
- Site Considerations
- Hours of Work
- Construction Vehicle Parking Restrictions
- Access Road Requirements
- ROW restrictions
- Drainage Requirements
- Sewer Requirements
- Water Service Requirements
- Additional Fire Code Requirements
- Planning Requirements
- Noise Abatement Certification
- Tree Requirements

☒ PRECONSTRUCTION MEETING REQUIRED. Refer to the "Preconstruction Meeting Checklist" notes for additional requirements.
☑ Temporary site address with minimum 6" high numbers visible from the street must be installed.
☑ Erosion control measures must be as shown on approved project drawings. All erosion control is to be in place and inspected prior to the start of any work.
☑ A City of Mercer Island Business License is required for all subcontractors. Call (206) 275-7602 for more information.
☑ Additional rockeries, patios, gravel or concrete paths, and other hardscape revisions to the project shall be submitted to the City for review and approval prior to installation.

## LEGAL NONCONFORMANCE/STORMWATER THRESHOLD
Certain thresholds in the Land Use Code (MICC 19) or Stormwater Code (MICC 15.09) can have a significant impact on the requirements to conform with current code. Take special care to conform to the construction documents as-issued to avoid additional improvements.

☐ This project includes modification of legally nonconforming structures - MICC 19.01.050
☒ This project retains existing construction to limit calculation of *New Plus Replaced Hard Surface* - MICC 15.09

## TREE REQUIREMENTS
TREE REMOVAL NOT SHOWN ON APPROVED PLAN MAY REQUIRE A SEPARATE TREE PERMIT - REFER TO MICC 19.10
☒ Tree protection as shown on approved drawings shall be installed at tree dripline prior to start of any site work and must remain in place throughout the project. Tree damage due to failure to follow approved plans shall result in fines per MICC 19.19.160.
☐ Replacement conifer trees must be a minimum of six feet tall at installation. Deciduous trees must have a minimum caliper of 1-1/2 inches. They must be planted and approved prior to final inspection.
For this project, _____ trees are authorized to be removed and replaced with _____ trees.
This project may be within a protected eagle nest area. Contact Federal Fish and Wildlife at (360) 534-9304 or visit their website at www.fws.gov/pacific/eagle.

## FIRE PROTECTION REQUIREMENTS
Separate Permits are required for ***ALL*** fire protection systems. Fire Inspections can be requested at eastsidefire-rescue.org using the QR above, and require 48 hour advanced notice. Do not request fire inspections via MBP or on the general inspection line.

☐ Fire Sprinkler
☐ NFPA 13D
☐ Full Coverage
☐ NFPA 13R
☐ NFPA 13
☐ Approved Fire Code Alternatives (FCA):
☐ FCA1
☐ FCA2
☐ Monitored Household
Fire Alarm per NFPA 72
☐ Monitored Sprinkler
Water Flow Alarm
☐ Other:
☐ FCA3
☐ FCA4

## WATER SERVICE REQUIREMENTS
☐ New or upsized water supply system required.
☐ Water service pre-con meeting and parts inspection are required prior to scheduling the water tap with the City. Schedule these inspections under the water service permit
☐ Applicant Installation.
☐ Minimum Service Line Size (main to meter): _____
☐ Minimum Supply Line Size (meter to house): _____
☐ Minimum Required Meter Size: _____
☐ Abandonment of existing service and meter required at main.
☒ City Inspector must verify water supply line (water meter to the house) sizing prior to final inspection. Upsizing may be required.

Additional water supply requirements:
- Contractor shall provide water supply that meets the required fire sprinkler system fire flow. Fire calculations or fire flow testing outcome may require a larger water service/meter or water supply line.
- Pressure reducing valve required if water pressure exceeds 80 psi.
- Reduced pressure backflow assembly (RPBA) required for all waterfront lots and for lots with potential connection to non-city water supply. See mercerisland.gov/backflow

For additional information about Water Service Inspection process: https://www.mercerisland.gov/cpd/page/water-service

## STORMWATER MANAGEMENT
The storm drainage system shown on the approved plans shall be constructed and approved by the City Inspector prior to the construction of the roof, driveway, and other impervious surface that generate runoff from the project.

☒ Dispersion / Infiltration system
☐ On-site detention system (MR #5)
☐ Direct discharge to lake
☐ Rain Garden / Bioretention / Permeable Pavement
☐ Flow control system (MR #7)
☐ Run-off treatment (MR #8)
☐ Connect / Extend public drainage system
☐ Full size storm drainage as-builts
☐ Drainage review not required
☐ Other:

## SIDE SEWER REQUIREMENTS
☐ Side sewer requires a backflow preventer due to: a connection to the lake line, or elevation of the lowest plumbing fixture is lower than the elevation of the upstream manhole rim, or side sewer is shared with one or more properties
☐ Video tape of existing sewer required (see standard details)
☐ New connection ☐ Connect to existing ☐ Disconnect permit required ☐ Reconnect permit required
☐ Other:

## APPROVED CODE ALTERNATIVES
Code alternatives must be approved by the Building Official prior to permit issuance. All code alternatives must be inspected. Refer to the adjacent Required Construction Inspections checklist.

☐ CA1:
☐ CA2:

## PROJECT ALERTS AND NOTES TO INSPECTORS

## WILDLAND/URBAN INTERFACE
**-RESERVED FOR FUTURE USE-**

TO BE COMPLETED BY APPLICANT
TO BE COMPLETED BY CITY

## REQUIRED CONSTRUCTION INSPECTIONS
It is the applicant's responsibility to contact CPD to schedule ALL inspections applicable to the project. Request inspections online at www.MyBuildingPermit.com or by calling the Inspection Hotline at (206) 275-7730. Each MBP inspection type is in [square brackets]. Refer to FIRE PROTECTION REQUIREMENTS for information on scheduling a fire inspection.

***Inspections marked with "*" are not building permit inspections, and should be requested under the appropriate permit number. Refer to the packet provided at permit issuance or search by address at mybuildingpermit.com for other issued permit numbers.***
**INSPECTIONS:** (Listed in order of typical sequencing)

| Inspector | Date | Approved | N/A | Inspection Description | MBP.com Inspection Name | PARTIAL 1 | PARTIAL 2 | PARTIAL 3 |
|---|---|---|---|---|---|---|---|---|
| | | ☐ | ☐ | Pre-construction Meeting to Review Conditions of Permit Approval | [PRE-CON MTG GENERAL] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Tree protection | [TREE PROTECTION] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Erosion control | [EROSION CNTROL] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Sewer disconnect and cap | [SIDE SEWER DISCONNEC] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Right-of-way use or work / easement, material delivery, etc. If applicable, separate ROW permit required | [ROW OR UTILITY IMPRO] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Land clearing, grading and demolition | [FINAL DEMO] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Pilings / Shoring / Shotcrete. If applicable, provide survey letter (property line); Geotechnical Engineer / Special Inspector reports of inspections (pile and shoring installation, etc.) | [FOUNDATION WALLS/CON] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Footings, setbacks, UFER ground. If applicable, provide survey letter (building height and setbacks); Special Inspector reports of inspections (soil bearing capacity, compaction, earthwork, pile installation, etc.) | [FOOTINGS, SETBACKS, U] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Foundation walls / concrete columns | [FOUNDATION WALLS/CON] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Roof and footing drains | [CONVEYANCE FACILITIE] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Foundation dampproofing | [FOUND DAMP PROOFING] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Storm drainage, including (but not limited to) ◦ Connections to storm main in ROW ◦ Det systems / Conveyance / Flow control ◦ Infiltration systems / L.I.D. systems ◦ Catch basins ◦ Area drains ◦ Storm drain in ROW ◦ Pump systems ◦ Retaining wall drainage | [CONVEYANCE FACILITIE] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Water Service | [3. WATER SERVICE TAP] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Water Supply | [WATER SUPPLY LINE] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Side sewer installation, including (but not limited to) ◦ Connections to side sewer main ◦ Connections to existing side sewer ◦ Back-flow valves ◦ Grinder pump systems | [SIDE SEWER INSTALLAT] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Driveway / Access road | [ROW OR UTILITY IMPRO] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Underslab electrical / mechanical / plumbing | [UNDER-SLAB ELECT/MEC] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Underslab insulation / vapor barrier / reinforcing | [UNDER-SLAB INSULATIO] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Underfloor framing | [UNDER-FLOOR FRAMING] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Nailing-Roof sheathing (See SF2 for Required Agency Inspection) | [NAILING-ROOF SHEATHING] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Shear wall construction (See SF2 for Required Agency Inspection) | [NAILING-EXTERIOR WALL] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Rough hydronic installation | [ROUGH HYDRONIC PIPIN] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Rough electric installation | [ROUGH ELECTRIC] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Rough fire alarm (wiring inspection) | [ROUGH-IN LOW VOLTAGE] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Rough plumbing installation (DWV, water) | [ROUGH PLUMBING] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Rough mechanical | [ROUGH MECHANICAL/HVA] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Electrical service | [ELECTRICAL SERVICE] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Gas Piping & Test | [GAS PIPING/TEST] | ☐ | ☐ | ☐ |
| | | ● ☐ | ☐ | Rough fire sprinkler / hydrostatic and flow (bucket) test | [ROUGH SPRINKLER RES/STATUS] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Framing and glazing. (See SF2 for Required Agency Inspection) | [FRAMING (& GLAZING)] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Masonry construction (fireplace / walls / veneer / etc.) | [MASONRY] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Insulation installation | [INSULATION] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Stucco (paper and lath) | [STUCCO] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Shower pan (or tub) | [SHOWER PAN (OR TUB)] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Weather exposed balcony and walking surface waterproofing | [ROOF DECK WATERPROOFING] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Code Alternative CA1 | [CODE ALT 1] | ☐ | ☐ | ☐ |
| | | ☐ | ☐ | Code Alternative CA2 | [CODE ALT 2] | ☐ | ☐ | ☐ |

## FINAL INSPECTIONS

| Inspector | Date | | |
|---|---|---|---|
| | | ☐ | **Final Tree Inspection:** Tree Restoration [FINAL_TREE] |
| | | ☐ | **Final Fire Inspection:** Fire protection [FINAL FIRE_ALL SYSTEMS/ACCESS] ◦ Sprinkler ◦ Access Road ◦ Fire Code Alternatives (see below) ☐ FCA1 ☐ FCA2 ◦ Fuel Tank Installation ◦ Fire Extinguishing System ◦ Fire Alarm System ☐ FCA3: ☐ FCA4: |
| | | ☐ | **Final Civil Inspection:** Site and utility, landscape, utilities, ROW, and Site [FINAL_CIVIL] Water supply protection/Backflow devices for: ◦ Waterfront property ◦ Fire / lawn sprinkler ◦ Well water on property ◦ Boiler |
| | | ☐ | **Final Building Inspection:** [FINAL_BUILDING] provide closeout (summary) letters from Engineer, Special Inspectors, Geotechnical Engineer, and EIFS inspectors. **Final MEP Inspections:** ☐ Mech ☐ Electrical ☐ Plumbing |
| | | ☐ | **Impact Fees Paid** (If applicable) |

## TCO APPROVALS

| Inspector | Date | |
|---|---|---|
| | | ☐ [TCO_TREE] |
| | | ☐ [TCO_FIRE] |
| | | ☐ [TCO_CIVIL] |
| | | ☐ [TCO_BLDG] |

## 90 DAY TEMPORARY CERTIFICATE OF OCCUPANCY (TCO)
Applicant option. Additional fees required. All TCO Approvals above must be complete.

*Approved* *Start Date* *End Date*

## ADDITIONAL REQUIRED CITY INSPECTIONS
Use the contact information below to arrange these additional inspections.

| Required Inspection(s): | Contact: | Contact email: |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

## IMPACT FEES
If required for the project but deferred beyond permit issuance.

☐ Impact fees apply and are due ***prior*** to Final Inspection or on _____ *Date*, whichever occurs first.

## PLAN REVIEW APPROVALS
Not all review disciplines may be required to review the documents.

| *Building* | *Planning* | *Engineering* | *Tree* | *Fire* |
|---|---|---|---|---|
| *Date* | *Date* | *Date* | *Date* | *Date* |

## CERTIFICATE OF OCCUPANCY
Issued after all required inspections have been performed and approved.
*Date* *Approved*

APPROVED DRAWINGS MUST BE KEPT ON THE BUILDING SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE
*Date* *Approved*

CITY OF MERCER ISLAND
**COMMUNITY PLANNING & DEVELOPMENT**
# THIRD PARTY INSPECTIONS

(206) 275-7605 WWW.MERCERISLAND.GOV/CPD
EPERMIT.TECH@MERCERISLAND.GOV
DOCUMENTS ARE SUBJECT TO PUBLIC DISCLOSURE AS REQUIRED BY RCW 42.56

**INSPECTION REQUESTS**
*Request inspections online via QR code or voicemail*
FIRE INSPECTION
(206) 275-7979
ALL OTHER INSPECTION
(206) 275-7730

## REQUIRED SPECIAL INSPECTIONS

Indicate on the form below the required Special Inspections for this project. Special Inspections are regulated by IBC Section 1705. If the method of construction is included in project scope, the inspections are required.

## REGISTERED DESIGN PROFESSIONAL

IBC Section 1704.2.3 requires the Registered Design Professional (RDP) in Responsible Charge to complete a *Statement of Special Inspections*. For City of Mercer Island permitting purposes, submitting this document is confirmation that the RDP has completed and reviewed the Special Inspections requirements and acknowledges this information complies with IBC Section 1705.

Name: | License Number: | License Type: | License Expiration:

| SPECIAL INSPECTION DESCRIPTION | | REFERENCES | SPECIAL INSP REQUIRED | FREQUENCY | APPROVALS: Special Inspector sign-off | APPROVALS: City Inspector sign-off |
|---|---|---|---|---|---|---|
| **ALTERNATIVE MATERIALS AND SYSTEMS (IBC 1705.1)** | | | | | | |
| Construction materials and systems that are alternatives to materials and systems prescribed by the IBC. | Notes: | | | | | |
| Unusual design applications of materials described in the code. | Notes: | | | | | |
| Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in the IBC or in standards referenced by the IBC. | Notes: | | | | | |
| **STEEL CONSTRUCTION (IBC 1705.2)** | | | | | | |
| **Structural Steel:** Special Inspections for structural steel shall be in accordance with the inspection requirements of AISC 360 Chapter N. | | AISC 360 Chapter N | ☐ | Per Standard | | |
| *Quality Control: Procedures specified by the fabricator and erector to ensure that work is performed in accordance with AISC specification and the construction documents* | | AISC 360 Section N5 (1) | ☐ | Per Standard | | |
| *Quality Assurance: Review and inspection performed by an agency hired by the owner to ensure work is performed in accordance with the construction documents* | | AISC 360 Section N5 (2) | ☐ | Per Standard | | |
| **Cold Formed Steel Deck:** Special Inspections and qualifications or welding special inspectors for cold form set floor and roof deck shall be in accordance with Steel Deck Institute QA/QC. | | Steel Deck Institute QA/QC | ☐ | Per Standard | | |
| **Open-Web Steel Joists and Joist Girders:** | | SJI Specification per IBC 2207.1 | ☐ | Periodic | | |
| *End connections: welding or bolting.* | | SJI Specification per IBC 2207.1 | ☐ | Periodic | | |
| *Bridging: horizontal or diagonal.* | | SJI Specification per IBC 2207.1 | ☐ | Periodic | | |
| *Standard Bridging.* | | SJI Specification per IBC 2207.1 | ☐ | Periodic | | |
| *Bridging that differs from SJI Specifications listed in Section 2207.1.* | | SJI Specification per IBC 2207.1 | ☐ | Periodic | | |
| *Temporary and permanent restraint / bracing of cold-formed trusses over 60 feet.* | | IBC 1705.2.4 | ☐ | Periodic | | |
| **CONCRETE CONSTRUCTION (IBC 1705.3) [a.]** | | | | | | |
| Inspect reinforcement, including prestressing tendons, and verify placement | | ACI 318 Ch 20, 25.2, 25.3, 26.5.1-26.5.3 | ☐ | Periodic | | |
| **Reinforcing bar welding:** | | AWS D1.4 ACI 318 Ch 26.6.4 | ☐ | Periodic | | |
| *Verify weldability of reinforcing bars other than ASTM A706.* | | | | | | |
| *Inspect single-pass fillet welds, maximum 5/16 inches.* | | AWS D1.4 ACI 318 Ch 26.6.4 | ☐ | Periodic | | |
| *Inspect all other welds.* | | AWS D1.4 ACI 318 Ch 26.6.4 | ☐ | Continuous | | |
| Inspect anchors cast in concrete. | | ACI 318 Ch 17.8.2 | ☐ | Periodic | | |
| **Anchors post-installed in hardened concrete members:** *Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.* | | ACI 318 Ch 17.8.2.4 | ☐ | Continuous | | |
| *All other post-installed mechanical and adhesive anchors.* | | ACI 318 Ch 17.8.2 | ☐ | Periodic | | |
| Verify use of required design mix. | | ACI 318 Ch 19, 26.4.3, 26.4.4; IBC 1904.1, 1904.2, 1908.2, 1908.3 | ☐ | Periodic | | |
| Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | | ASTM C 172, ASTM C31 ACI 318 Ch 26.5, 26.12 | ☐ | Continuous | | |
| Inspect concrete and shotcrete placement for proper application techniques. | | ACI 318 Ch 26.5 | ☐ | Continuous | | |
| Verify maintenance of specified curing temperature and techniques. | | ACI 318 Ch 26.5-26.5.5 | ☐ | Periodic | | |
| **Prestressed concrete:** *Application of prestressing forces.* | | ACI 318 Ch. 26.10 | ☐ | Continuous | | |
| *Grouting of bonded prestressing tendons.* | | ACI 318 Ch. 26.10 | ☐ | Continuous | | |
| Inspect erection of precast concrete members. | | ACI 318 Ch. 26.9 | ☐ | Periodic | | |
| Precast concrete diaphragm connections | | ACI 318 Ch. 26.13.1.3 | ☐ | Periodic | | |
| Precast diaphragm installation tolerances | | ACI 550.5 | ☐ | Continuous | | |
| Verify in-situ concrete strength prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs. | | ACI 318 Ch. 26.11.2 | ☐ | Periodic | | |
| Inspect formwork for shape, location and dimensions of the concrete member being formed | | ACI 318 Ch. 26.11.2(b) | ☐ | Periodic | | |
| **MASONRY CONSTRUCTION (IBC 1705.4) [b.]** | | | | | | |
| Empirically designed masonry, glass unit masonry, or masonry veneer as part of a Risk Category IV structure requiring Level B Quality Assurance per ACI 530 | | ACI 530 Chapter 3 IBC 1705.4 | ☐ | Per Standard | | |
| Vertical masonry foundation elements requiring Quality Assurance per ACI 530 | | ACI 530 Chapter 3 IBC 1705.4 | ☐ | Per Standard | | |
| **WOOD CONSTRUCTION (IBC 1705.5)** | | | | | | |
| **High-Load diaphragms:** *Panel thickness, framing member sizes, and nail or staple diameters and patterns (includes any diaphragms utilizing more than one row of fasteners at edges designed per IBC Section 2306.2/SDPWS 4.2.7.1.2);* | | IBC 1705.5.1 | ☐ | Periodic | | |
| **Metal-plate-connected wood trusses spanning 60 feet or greater:** *Verify temporary and permanent individual truss member restraint / bracing are installed in accordance with approved truss submittal package.* | | IBC 1705.5.2 | ☐ | Periodic | | |
| **Mass timber construction per IBC Table 1705.5.3** | | IBC 1705.5.3 | ☐ | Periodic | | |
| **Mass timber (upwardly inclined adhesive anchors)** | | IBC 1705.5.3 | ☐ | Continuous | | |

**a.** Concrete special inspection not required where work meets the exceptions listed in IBC Section 1705.3

**b.** Masonry special inspection not required where work meets the exceptions listed in IBC Section 1705.4

| SPECIAL INSPECTION DESCRIPTION | REFERENCES | SPECIAL INSP REQUIRED | FREQUENCY | APPROVALS: Special Inspector sign-off | APPROVALS: City Inspector sign-off |
|---|---|---|---|---|---|
| **SOILS (IBC 1705.6)** | | | | | |
| Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | Geotechnical Report | ☐ | Periodic | | |
| Verify excavations are extended to proper depth and have reached proper material. | Geotechnical Report | ☐ | Periodic | | |
| Perform classification and testing of compacted fill materials. | Geotechnical Report | ☐ | Periodic | | |
| Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. | Geotechnical Report | ☐ | Continuous | | |
| Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly. | Geotechnical Report | ☐ | Periodic | | |
| **DRIVEN DEEP FOUNDATIONS (IBC 1705.7)** | | | | | |
| Verify element materials, sizes and lengths comply with the requirements noted in the drawings and geotechnical report. | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| Determine capacities of test elements and conduct additional load tests, as required. | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| Inspect driving operations and maintain complete and accurate records for each element. | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| 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. | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| For steel elements, perform additional Special Inspections in accordance with Section 1705.2. | Geotechnical Report, Construction Documents | ☐ | | | |
| For concrete elements and concrete-filled elements, perform additional Special Inspections in accordance with Section 1705.3. | Geotechnical Report, Construction Documents | ☐ | | | |
| For specialty elements, perform additional Special Inspections as determined by the Registered Design Professional in responsible charge. | Geotechnical Report, Construction Documents | ☐ | | | |
| **CAST-IN-PLACE DEEP DRIVEN FOUNDATIONS (IBC 1705.8)** | | | | | |
| Inspect drilling operations and maintain complete and accurate records for each element | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| Verify placement locations and 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. | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| For concrete elements, perform additional Special Inspections in accordance with Section 1705.3. | Geotechnical Report, Construction Documents | ☐ | | | |
| **HELICAL PILE FOUNDATIONS (IBC 1705.9)** | | | | | |
| Record installation equipment used, pile dimension, tip elevations, final depth, final installation torque and other pertinent installation information as determined by the Registered Design Professional in responsible charge. | Geotechnical Report, Construction Documents | ☐ | Continuous | | |
| **SPECIAL INSPECTION FOR WIND RESISTANCE (IBC 1705.11) [c.]** | | | | | |
| **Structural wood wind resistance elements:** *Field gluing of wood elements of the windforce-resisting system.* | IBC 1705.11.1, Construction Documents | ☐ | Continuous | | |
| *Nailing, bolting, anchoring and other fastening of wood elements of the main windforce-resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs.* [d.] | IBC 1705.11.1, Construction Documents | ☐ | Periodic | | |
| **Cold-formed steel light-frame wind resistance elements:** *Welding operations of cold-formed steel light-frame elements of the main windforce-resisting system.* | IBC 1705.11.2, Construction Documents | ☐ | Periodic | | |
| *Screw attachment, bolting, anchoring, and other fastening of elements of cold-formed steel light-frame elements of the main windforce-resisting system, including shear walls, braces, diaphragms, drag struts and hold-downs.* [d.] | IBC 1705.11.2, Construction Documents | ☐ | Periodic | | |
| **Fastening of the following systems and components:** *Roof covering, roof deck and roof framing connections.* | IBC 1705.11.3 (1), Construction Documents | ☐ | Periodic | | |
| *Exterior wall covering and wall connections to roof and floor diaphragms and framing.* | IBC 1705.11.3 (2), Construction Documents | ☐ | Periodic | | |

**c.** Special inspection required in wind Exposure Category C or D per IBC Section 1705.11 (2).
**d.** Special inspection not required where wood or steel structural panels are on only one side of the shear wall and the fastener spacing for the sheathing is greater than 4 inches on center.

| SPECIAL INSPECTION DESCRIPTION | REFERENCES | SPECIAL INSP REQUIRED | FREQUENCY | APPROVALS: Special Inspector sign-off | APPROVALS: City Inspector sign-off |
|---|---|---|---|---|---|
| **SPECIAL INSPECTION FOR SEISMIC RESISTANCE (IBC 1705.12) [e.]** | | | | | |
| **Structural steel seismic force-resisting systems:** *Special Inspections of MLFRS shall be in accordance with AISC 341 Chapter J. Submit all documents referenced in Section J3 "Quality Assurance Agency Documents" to the city for review.* | IBC 1705.12.1.1, AISC 341 *Seismic Provisions for Structural Steel Buildings* | ☐ | Per Standard | | |
| *Special inspection of structural steel elements shall be in accordance with AISC 341 Chapter J. Submit all documents referenced in Section J3 "Quality Assurance Agency Documents" to the city for review.* | IBC 1705.12.1.2, AISC 341 *Seismic Provisions for Structural Steel Buildings* | ☐ | Per Standard | | |
| **Structural wood seismic force-resisting systems:** *Special inspection during field gluing operations for elements of the seismic force-resisting system.* | IBC 1705.12.2 (1) | ☐ | Continuous | | |
| *Special inspection required for nailing, bolting, anchoring, and other fastening of elements of the seismic force-resisting system including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.* [f.] | IBC 1705.12.2 (2) | ☐ | Periodic | | |
| **Cold-formed steel light-frame seismic force-resisting systems:** *Special inspection during welding operations for elements of the seismic force-resisting system.* | IBC 1705.12.3 (1) | ☐ | Periodic | | |
| *Special inspection required for screw attachment, bolting, anchoring, and other fastening of elements of the seismic force-resisting system including shear walls, drag struts, braces, diaphragms and hold-downs.* | IBC 1705.12.3 (2) | ☐ | Periodic | | |
| **SPRAYED FIRE-RESISTANT MATERIALS (IBC 1705.14)** | | | | | |
| Special inspection and testing shall be per IBC Sections 1705.14.1 through 1705.14.6 as applicable. | IBC 1705.14 | ☐ | | | |
| **MASTIC AND INTUMESCENT FIRE RESISTANT COATINGS (IBC 1705.15)** | | | | | |
| Special inspection is required for fire-resistant coatings applied to structural elements and decks. | AWCI 12-B, Construction Documents | ☐ | | | |
| **EXTERIOR INSULATION AND FINISH SYSTEMS (IBC 1705.16)** | | | | | |
| Special inspection and testing shall be provided for all EIFS applications. [g. h.] | | ☐ | | | |
| Special inspection is required for water-resistive barrier complying with ASTM E 2570 when installed over a sheathing substrate. | ASTM E 570 | ☐ | | | |

**e.** Required where any of the following conditions exist (refer ASCE 7 Section 12.3): *Torsional or extreme torsional irregularity* *Nonparallel systems irregularity* *Stiffness (soft story) or extreme stiffness (extreme soft story) irregularity* *Discontinuity in lateral strength (weak story irregularity)*
**f.** Special inspection not required where wood or steel structural panels are on only one side of the shear wall and the fastener spacing for the sheathing is greater than 4 inches on center.
**g.** Special inspection not required for EIFS applications where installed over water-resistive barrier with a means of draining moisture to the exterior.
**h.** Special inspection is not required for EIFS applications installed over masonry or concrete walls.

TO BE COMPLETED BY RDP
TO BE COMPLETED BY CITY

## MERCER ISLAND REQUIRED AGENCY INSPECTIONS:

Reports documenting the quality of these types of construction are required by the Building Official as authorized by IRC Section R104.4x. The reports must be prepared by a WABO certified inspector for the specific type of construction, as indicated in the description, or as otherwise authorized by the Building Official.

| AGENCY INSPECTION DESCRIPTION | REFERENCES | AGENCY INSPECTION REQUIRED | FREQUENCY | APPROVALS: Agency Inspector sign-off | APPROVALS: City Inspector sign-off |
|---|---|---|---|---|---|
| **EXTERIOR PLASTER (IRC 703.7) [i.]** | | | | | |
| **Installation:** *Lath and lath attachment.* | ASTM C 926, ASTM C 1063 IRC R703.7.1 | ☐ | Periodic | | |
| *Portland Cement plaster mix, number of coats, thickness of coats.* | IRC Tables R702.1(1), 702.1(3) IRC R703.7.2 | | | | |
| *Weep screed material, attachment and location.* | ASTM C 926, IRC R703.7.2.1 | | | | |
| *Water resistive barrier installation, flashing installation, and drainage.* | IRC R703.2, IRC R703.4, IRC R703.7.3 | | | | |
| *Application of each coat and minimum curing.* | ASTM C 926, IRC R703.7.4, IRC R703.7.5 | | | | |
| **EXTERIOR INSULATION AND FINISH SYSTEM (IRC 703.7) [j.]** | | | | | |
| **Installation:** *Installed in accordance with EIFS manufacturer's instructions.* | ASTM E 2568 IRC R703.9 | ☐ | Periodic | | |
| *Drainage provided over all wall assemblies except substrates of masonry or concrete. Drainage shall have a 90 percent efficiency. EIFS and EIFS drainage shall terminate not less than 6 inches above finish grade.* | ASTM 2273, ASTM E 2570, IRC R703.2 | | | | |
| *Flashing shall be shall be provided per IRC R703.8. Decorative trim shall not be face-nailed through the EIFS.* | IRC R703.8, IRC R703.4, IRC R703.7.3 | | | | |
| **LATERAL RESISTING SYSTEM** | | | | | |
| **Installation:** *Shearwall and diaphragm sheathing, panel edge and field nailing.* | Construction Documents | ☐ | Periodic | | |
| *Lateral load path continuity, i.e. roof and floor diaphragm to shearwall top plate below, shearwall to foundation.* | Construction Documents | | | | |
| *Collector / drag strut nailing and connections. Holdown installation and location.* | Construction Documents | | | | |
| **RESIDENTIAL WASHINGTON STATE ENERGY CODE** | | | | | |
| **Air Leakage Control:** *Tested and verified as having an air leakage rate not exceeding 5 air changes per hour.* | WSEC R402.4.1.2 | ☐ | | | |
| *Tested and verified as having an air leakage rate not exceeding 3 air changes per hour as required by Energy Credit 2a.* | WSEC R402.4.1.2, WSEC Table 406.3 | ☐ | | | |
| *Tested and verified as having an air leakage rate not exceeding 2 air changes per hour as required by Energy Credit 2b.* | WSEC R402.4.1.2, WSEC Table 406.3 | ☐ | | | |
| *Tested and verified as having an air leakage rate not exceeding 1.5 air changes per hour as required by Energy Credit 2c.* | WSEC R402.4.1.2, WSEC Table 406.3 | ☐ | | | |
| *Duct testing shall be provided in accordance with WSU RS-33 using the maximum duct leakage rates specified in WSEC R403.3.4. Written results shall be signed by the tester and provided to the code official.* | WSEC R403.3, WSEC R403.3.4 | ☐ | | | |

**i.** Includes stucco installation.

**j.** Not required for EIFS applications installed over a water-resistive barrier draining moisture to the exterior or where installed over masonry of concrete.

## MERCER ISLAND ADDITIONAL CIVIL ENGINEERING REQUIREMENTS:

The following civil engineering inspections and documentation shall be performed by the indicated Design Professional. Associated inspection reports and documentation shall be provided to the code official prior to final inspection.

| CIVIL ENGINEERING INSPECTIONS | | | | APPROVALS: Agency Inspector sign-off | APPROVALS: City Inspector sign-off |
|---|---|---|---|---|---|
| Project Civil Engineer or Geotechnical Engineer shall inspect and certify that the lawn and landscape areas meet the specified post-construction soil quality and depth requirements. | Construction Documents BMP T5.13 (2017 DOE manual) | ☐ | Periodic | | |
| Project Civil Engineer shall inspect and certify the construction of the infiltration system, dispersion system, rain garden, bioretention, permeable pavement system and all LID systems for conformance to approved plans. | Construction Documents, Infiltration Report, Geotechnical Report | ☐ | Periodic | | |
| Project Geotechnical Engineer shall observe and certify the infiltration system, dispersion system, rain garden, bioretention, permeable pavement system, and all LID systems to verify suitablity of existing soil conditions. | Construction Documents, Infiltration Report, Geotechnical Report | ☐ | Periodic | | |
| **CIVIL ENGINEERING DOCUMENTATION** | | | | | |
| The Declaration of Covenant for the inspection and maintenance of private stormwater facilities must be signed, recorded and received by the City prior to final inspection. | | ☐ | | | |
| A Right-of-Way Encroachment Agreement must be recorded for all private improvements in the right-of-way prior to final inspection. | | ☐ | | | |
| Other as Specified: | | ☐ | | | |

## SURVEY REQUIREMENTS (The following survey information must be submitted to planner when checked):

Surveyor shall verify points chosen for height calculations and point verification shall be submitted at the time of City foundation Inspection. A property survey may be required to verify setbacks and in some cases buildings must be surveyed onto the lot. The City reserves the right to request a lot coverage and hardscape area survey at any time prior to issuance of Certificate of Occupancy.

Land Use Planning Contact: _____ email: _____

☐ Building height survey _____ ☐ Hardscape survey _____
☐ Building setback survey _____ ☐ Gross floor area survey _____
☐ Lot coverage survey _____

☐ **MAXIMUM 40 PERCENT ALTERATION INSPECTION:** *MICC 19.01.050(D)(1)(b)(i)*
A Building Inspection prior to demolition is required for all legally nonconforming single family dwelling to ensure no more than 40 percent of the dwelling's exterior walls are structurally altered. Contact the Building Inspector at (206) 275-7730.

TO BE COMPLETED BY RDP
FIELD USE ONLY

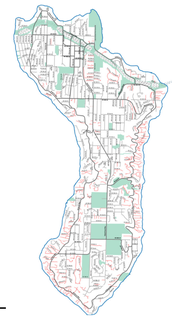
## SPECIAL INSPECTOR AND AGENCY INSPECTOR CONTACTS:

Each inspector designated in the field to perform any of the above Special Inspections or City initiated Agency Inspections shall provide the following information:

| INSPECTOR NAME | INITIALS | COMPANY NAME | PHONE NUMBER | EMAIL ADDRESS |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**SF2**
BUILDING PERMIT NUMBER

**PROJECT NAME:** RUDD RESIDENCE ADDITIONS AND ALTERATIONS
**PROJECT ADDRESS:** 8032 SE 57TH ST, MERCER ISLAND WA 98040



APPROVED DRAWINGS MUST BE KEPT ON THE BUILDING SITE AT ALL TIMES
REVIEWED FOR CODE COMPLIANCE
Approved _____ Date _____