Include calculations for the categories below. See DCSM sections 2.4 and 2.7 for additional details on drawings. See DCSM section 2.7.5.2 for additional details on calculations.

**Instructions**:

Indicate your response to each item in the checklist. Select ‘Yes’ if the checklist item has been completed in full. Select ‘No’ or ‘N/A’ if that item is not included or not required for the specific project. Explain why that item has not been included in the submittal.

| **RESPONSE** | **REQUIREMENTS** |
| --- | --- |
|  | Structural Calculations |
| Choose an item. | Provide calculations representative of the various types of structural elements. Calculations for every structural member are not required. |
| Choose an item. | Confirm that computer printout submissions clearly indicate the structural member being analyzed or that diagrams labeled with corresponding member numbers are provided with the printout. |
|  | Plumbing Calculations |
| Choose an item. | Provide calculations for plumbing fixture counts. |
| Choose an item. | Provide calculations for domestic cold water demand. |
| Choose an item. | Provide calculations for domestic water heater and hot water storage sizing. |
| Choose an item. | Provide calculations for primary and secondary roof drainage system sizing. |
| Choose an item. | Provide calculations for sanitary demand. |
|  | Fuel Gas Calculations |
| Choose an item. | Provide calculations for gas piping. |
| Choose an item. | Provide calculations for flue vent sizing. |
|  | HVAC Calculations |
| Choose an item. | Provide calculations for HVAC building heat gain/loss. |
| Choose an item. | Provide calculations for ventilation (outside) air per space. |
| Choose an item. | Provide calculations for air distribution duct sizing and static pressure. |
| Choose an item. | Provide calculations for all equipment selections. Include fans, coils, chillers, boilers, pumps, cooling towers, and other applicable equipment. |
| Choose an item. | Provide hydronic and steam piping expansion and anchoring calculations. |
| Choose an item. | Provide calculations for refrigerant system capacity and volume. |
| Choose an item. | Provide calculations for fuel oil supply and storage sizing. |
|  | Energy Conservation Calculations |
| Choose an item. | Confirm compliance with the VT CAC. |
| Choose an item. | Provide calculations for building envelope thermal resistance and U-values. |
|  | Electrical Calculations |
| Choose an item. | Provide COMCheck verification. |
| Choose an item. | Provide calculations for the demand load for all switchboard, panelboards, and feeders to multiple loads in a tabular form. |
| Choose an item. | Provide voltage drop calculations. |
| Choose an item. | Provide calculations for photometrics of emergency lighting along the entire path of egress, at the same scale as the floor plan provided in the working drawings. If egress paths are not indicated on the plan, confirm that the lighting levels for the entire room or area will need to meet the required illumination levels required by the VCC. |