

**Purpose of this document:** To assist certified civil engineers and licensed land surveyors in the completion of the San Joaquin County Flood Management FM-1 AO / 1M AO Preliminary Elevation Certificate.

**1. The top section is to be filled out and signed by Flood Management.**

**2a. The second section, Main Structure / Residence / Addition,** is filled out by the licensed land surveyor or certified civil engineer.

- The *Highest Original Immediate Adjacent Elevation* is the highest elevation within the confines, or is adjacent to the proposed structure.
- *Depth of Fill Material/Fill Structure* is the elevation change caused by fill material or proposed structure used to bring the structures finished floor above the *Base Flood Elevation*. Please circle the correct term when filling out the form, or if neither, insert zero on line.
- *Minimum Finished Floor Elevation* is the minimum elevation of the finished floor *Above Highest Original Immediate Adjacent Grade* as required by the San Joaquin County Ordinance. This is copied from the top section.

**The difference is calculated by subtracting the *Minimum Finished Floor Elevation* from *Depth of Fill Material / Fill Structure*.**

A negative number indicates the finished floor will be below the *Base Flood Elevation*

**2b. The second section, right side block, Main Structure / Residence,** is filled out by the licensed land surveyor or certified civil engineer.

- The *Highest Original Immediate Adjacent Elevation* is the highest elevation within or immediately adjacent to the proposed structure.
- *Fill Material / Fill Structure* is the elevation change caused by fill material or proposed structure used to bring the sub structure at or above the *Base Flood Elevation*. Please check the correct term while filling out the form. If neither applies insert zero on line.
- *Minimum M/H Sub-structure Elevation* is the minimum elevation of the substructure not requiring an engineered foundation as required by San Joaquin County Ordinance. This is copied from the top section.
- If you wish to have your foundation located below the base flood elevation. The minimum flood water velocity for the calculations required in ASCE 24-05 is five feet per second.

**The difference is calculated by subtracting the *Highest Original Immediate Adjacent Grade Elevation* from the *Fill Material / Fill Structure* and subtracts the *Minimum Manufactured Home Sub-structure Elevation*. A negative number indicates the sub-structure will be below the Base Flood Elevation. San Joaquin County Ordinance requires non-engineered foundations to be at or above the base flood elevation for habitable space.**

**3. The third section, Water Tank / Equipment,** is filled out by the licensed land surveyor or certified civil engineer.

- The *Highest Original Immediate Adjacent Elevation* is the highest elevation within the confines, or is adjacent to the proposed water tank/equipment pad.
- *Depth of Fill Material or Fill Structure* is the elevation change caused by fill material or proposed structure used to bring the tank/equipment above the *Base Flood Elevation*.
- Please circle the correct term when filling out the form, or if neither, insert zero on line.
- *Minimum Equipment Elevation* is the minimum unrestrained elevation of the tank/equipment as required by the San Joaquin County Ordinance. This is copied from the top section.
- If the water tank/equipment is preexisting or None will be place on site, leave this section blank and check the **Pre-Existing** or **None** box.

**The difference is calculated by subtracting the *Minimum Equipment Elevation*. from *Depth of Fill Material / Fill Structure*. A negative number indicates the finished floor will be below the *Base Flood Elevation*. San Joaquin County Ordinance requires the tank to be anchored.**

4. The fourth section, **Propane / Butane / Fuel Tank / Equipment**, is filled out by the licensed land surveyor or certified civil engineer.

- The *Highest Original Immediate Adjacent Elevation* is the highest elevation within the confines, or is adjacent to the proposed tank pad.
- *Depth of Fill Material / Fill Structure* is the elevation change caused by fill material or proposed structure used to bring the tank above the Base Flood Elevation.
- Please circle the correct term when filling out the form, or if neither, insert zero on line.
- *Minimum Equipment Elevation* is the minimum unrestrained elevation *Above Highest Original Immediate Adjacent Grade* of the tank as required by San Joaquin County Ordinance. This is copied from the top section.
- If the Water Tank **is** preexisting or will be place on site, leave this section blank and check the **Pre-Existing** or **None** box.

**The difference is calculated by subtracting the *Minimum Equipment Elevation*. from *Depth of Fill Material / Fill Structure*. A negative number indicates the finished floor will be below the *Base Flood Elevation*. San Joaquin County Ordinance requires the tank to be anchored.**

5. **The bottom** section is for the certifier to complete and to wet stamp in the **Place Seal Here** block.

Owner must sign at bottom of form once it has been completed by the certifier.