San Joaquin County FM-1 AO/ 1M AO Instruction Sheet

2009

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 Str*ucture 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, <u>Propane / Butane / Fuel Tank / Equipment</u>, 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 <u>subtracting</u> 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 **<u>Place Seal Here</u>** block.

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

Flood Control Preliminary Elevation Certificate

FM-1 AO/1M AO

1. APN _____ **Date** _____ **Check Form Used**

Flood Zone _____ FM-1 AO ☐ FM-1 AO M ☐

Base Flood Elevation *or* Depth *(Circle one)* _____ *Above Highest Original Immediate Adjacent Grade*

Minimum M/H Substructure Elevation _____ *Above Highest Original Immediate Adjacent Grade*

Minimum Equipment Elevation _____ *Above Highest Original Immediate Adjacent Grade*

Minimum Finished Floor Elevation _____ *Above Highest Original Immediate Adjacent Grade** (AHOIAG)*

Signature _____

The information below must be signed and sealed by a licensed land surveyor or qualified civil engineer authorized by law to certify elevation information. I certify that the information on this sheet represents my best effort to interpret the data available. *(See instruction sheets for details on completing this form).*

Main Structure / Residence / Addition

2a. Datum _____ AHOIAG ☐

Original Highest Adjacent El. _____

Depth of Fill Material/Structure _____ *(Circle one)*

Min.Finished Floor El. _____

Difference

2b. Datum _____ AHOIAG ☐

Original Highest Adjacent El. _____

Depth of Fill Material/Structure _____ *(Circle one)*

Min. M/H Substructure El. _____

Difference

(Complete this section for Manufactured Structures)

3. Water Tank / Equipment

Datum _____ ☐ Preexisting ☐ None

Original Highest Immediate Adj. Elev. _____

Depth of Fill Material/Structure _____ *(Circle one)*

Minimum Equipment Elevation _____

Difference

4. Propane / Butane / Fuel Tank

Datum _____ ☐ Preexisting ☐ None

Original Highest Immediate Adj. Elev. _____

Depth of Fill Material/Structure _____ *(Circle one)*

Minimum Equipment Elevation _____

Difference

5. Certifiers Name Company Name

Title License Number

Address

City State Zip Code

Telephone Cell

Signature Date

PLACE SEAL HERE

Owner Signature _____ Date _____