3d house sign design

Directions:

1.) Create a 3d House sign etc using the ez router CNC mill
2.) You must complete the engineering design process as you go. No output will happen until the prep work is evident on the EDP.

Requirements:

1.) The Engineering Design Process report
2.) Must design a sign with the given requirements
3.) Must be school appropriate with no reference to sex, drugs, alcohol, profanity
4.) Please refer to the activity sheet for specific sign requirements

_Your Engineering Design Process Report should include the following:

1. Statement of the problem:

2. Your plan of completion in at least 4 steps

3. Brainstorming ideas: Pictures of at least three different examples that you looked at during your research along with at least two youtube videos as sources and any other Youtube links:

4. A picture of the sign that you are basing your design from.

5. Sketches of possible ideas. Take a picture of sketches using your phone or chromebook. **Include explanations**

Machine setup is very important in this activity and knowledge of the particulars will be stressed

Type of Toolpaths and size of bits for each: _____

Feed Rates for each tool path:_____

Spindle Speedsfor each tool path: _____

Time duration of milling operations: _____

Datum Selection: _____

7. Picture of your final Design (include notes on changes)

8.) Reflection: In a paragraph, chart your experience. Difficulties, successes, if you could do overs….