LPSD 4.0 SCOPE OF WORK

## In-Scope

### Completion of Reductive

Test cases 1-7 are the models used to verify the implementation of the reductive part of the Ki engine. The POIs are the last points of the models that need to be verified. Test cases 1-5 and 7 have already been completed and verified. The only test case remaining is test case 6.

### Virtual buildings (ability to load all buildings in one upload)

Originally in-scope was the ability to load in several buildings in one upload. The scope was changed to allow for multiple buildings to be uploaded one at a time. The feature of a multi-building single upload is still desirable as campuses and sub-stations are a significant portion of the LPSD 4.0 workload.

### Provide source code [COMPLETE]

Provide a full copy of the source code.

### Quick 1hr walkthrough of source code

Provide a walkthrough of the code.

## Next Steps [Future Quotes]

### Multiplicative Refinement

Several test case POIs have been found to have multiplicative values that are outside of the ±3% tolerance found on the spreadsheets. Of the seven test cases, only test case 1 has an adequate completion percentage of POI multiplicative values. There will need to be future refinement of these values.

### Sub-levels for gable peaks providing accurate Ki outputs (TC4,7)

Gable peaks were removed from the scope of reductive and multiplicative. These should at some point be properly calculated and completed as they do have various reductive values, especially for gables that have multiple slopes associated with them.

Create a document outlining the details of the Gable Peak.

### Automation of report-out for BOM

The report out would contain installation details and instruction prints. To achieve this a library of instruction prints and instruction details would need to be created in order to automate this process. The parts list would include the grounding parts, connectors, lightning protection connectors, and lightning protection terminals. The feature would allow administrators to add detail sheets per part. (DynamoDB/Revit/Scripting?)

Outline a tool to add and populate new global part numbers in LPSD with specific details. For example:

* Which parts are added, how to add a part
* How would installation instructions be added to the report out
* How would the instruction print(s) be added to the report out

Do associated details need to be associated only with BOM or with Revit details as well?

### Minor UI Updates

Add button 'Save' or something to the Building Models manager

* What does the 'refresh status even do?'

Add manger for levels?

* How do I know which layers are assigned to which buildings

Have Model Browser default as collapsed and not expanded

Fix search function in Model Browser

Fix hiding Analysis Levels

Next step to review requests with Carlo to determine priority