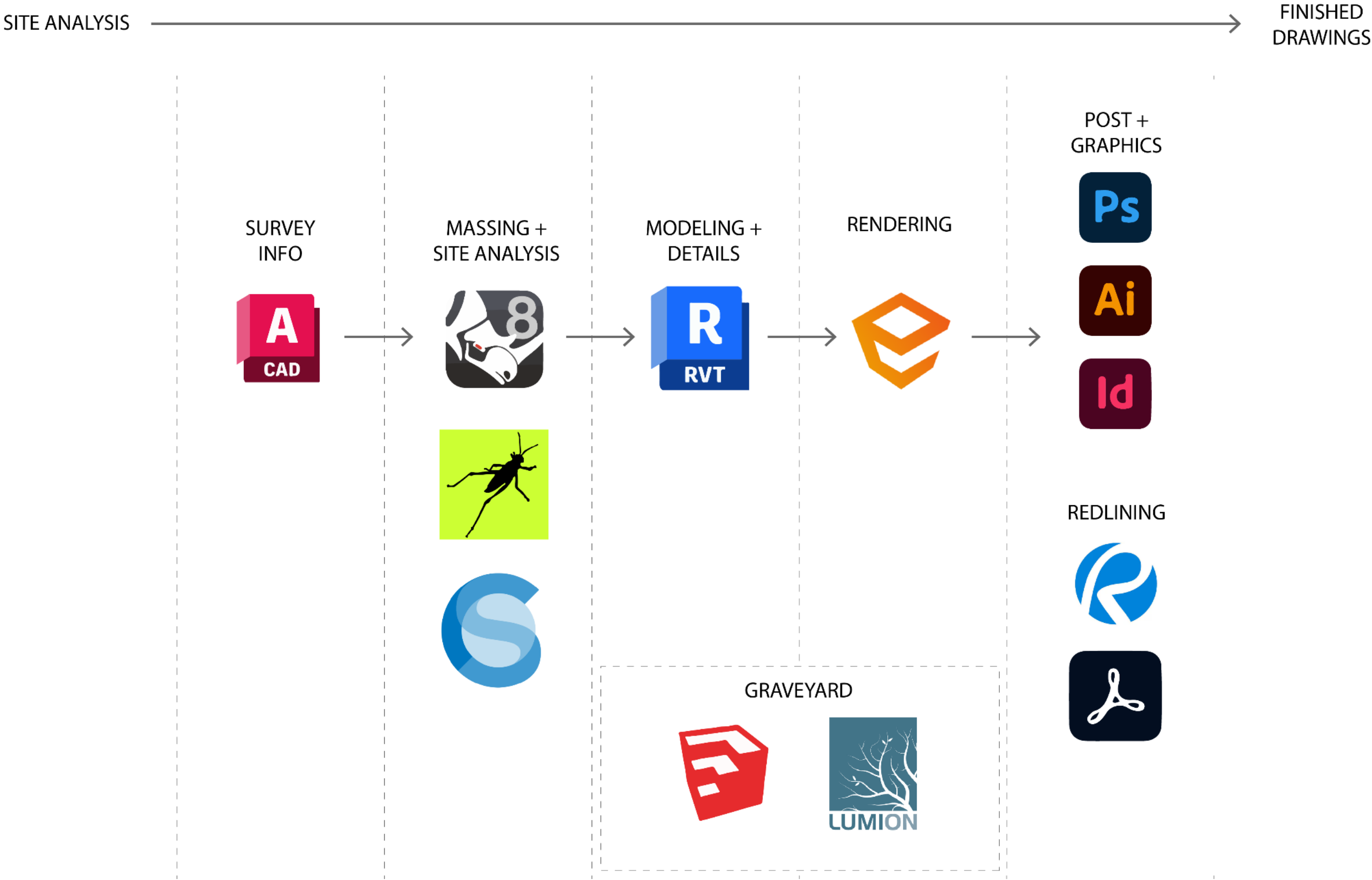


COMPUTATIONAL JOURNAL | WEEK 1 - WORKFLOW DIAGRAM



COMPUTATIONAL JOURNAL | WEEK 2

FINAL PROJECT IDEA:
LOCATION: I-980 OAKLAND, CA
TYPOLOGY: PEDESTRIAN BRIDGE / PLAY INFRASTRUCTURE

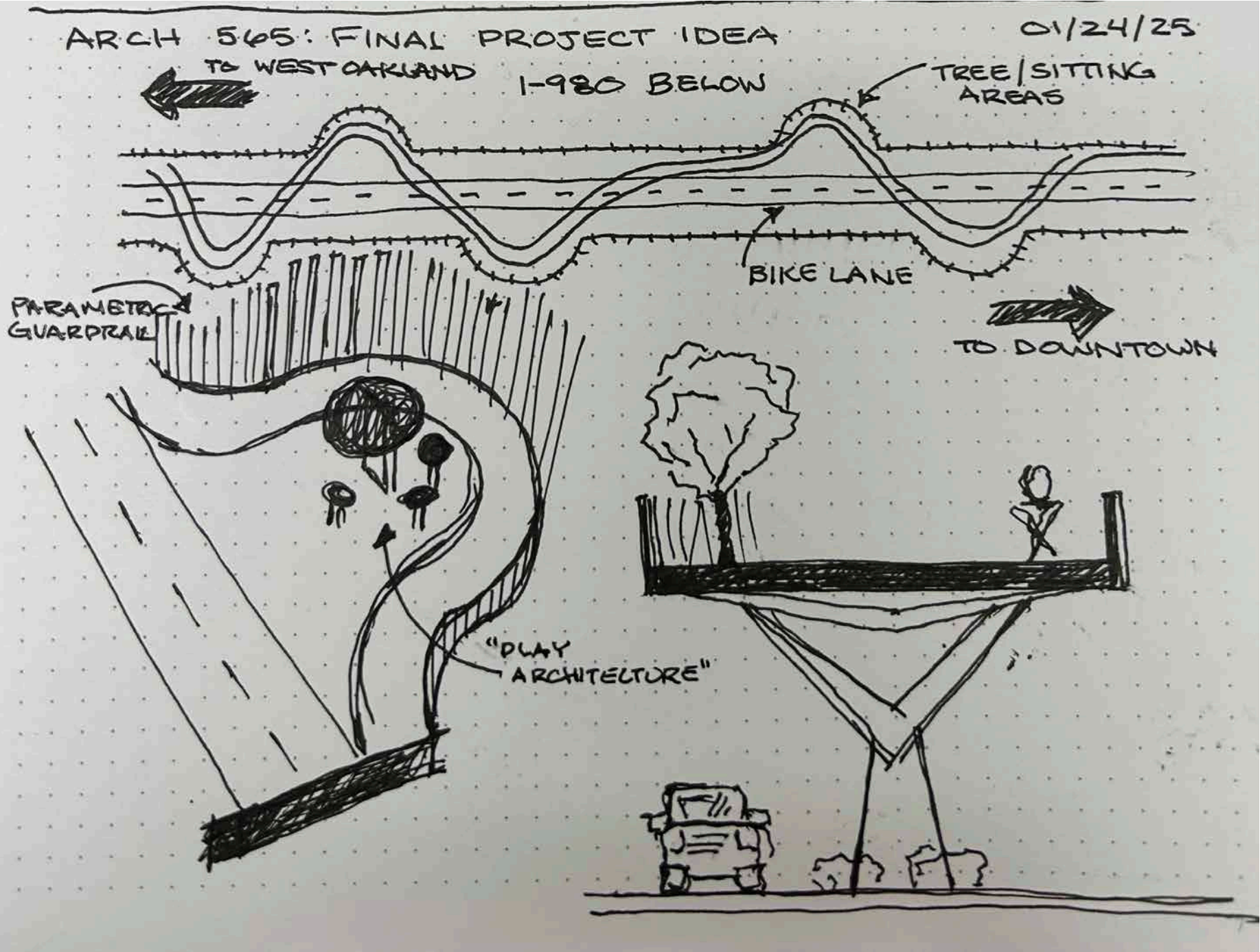
SITE:



INSPO:



PRELIMINARY "SKETCH":



COMPUTATIONAL JOURNAL | WEEK 4 - LiDAR SITE ANALYSIS

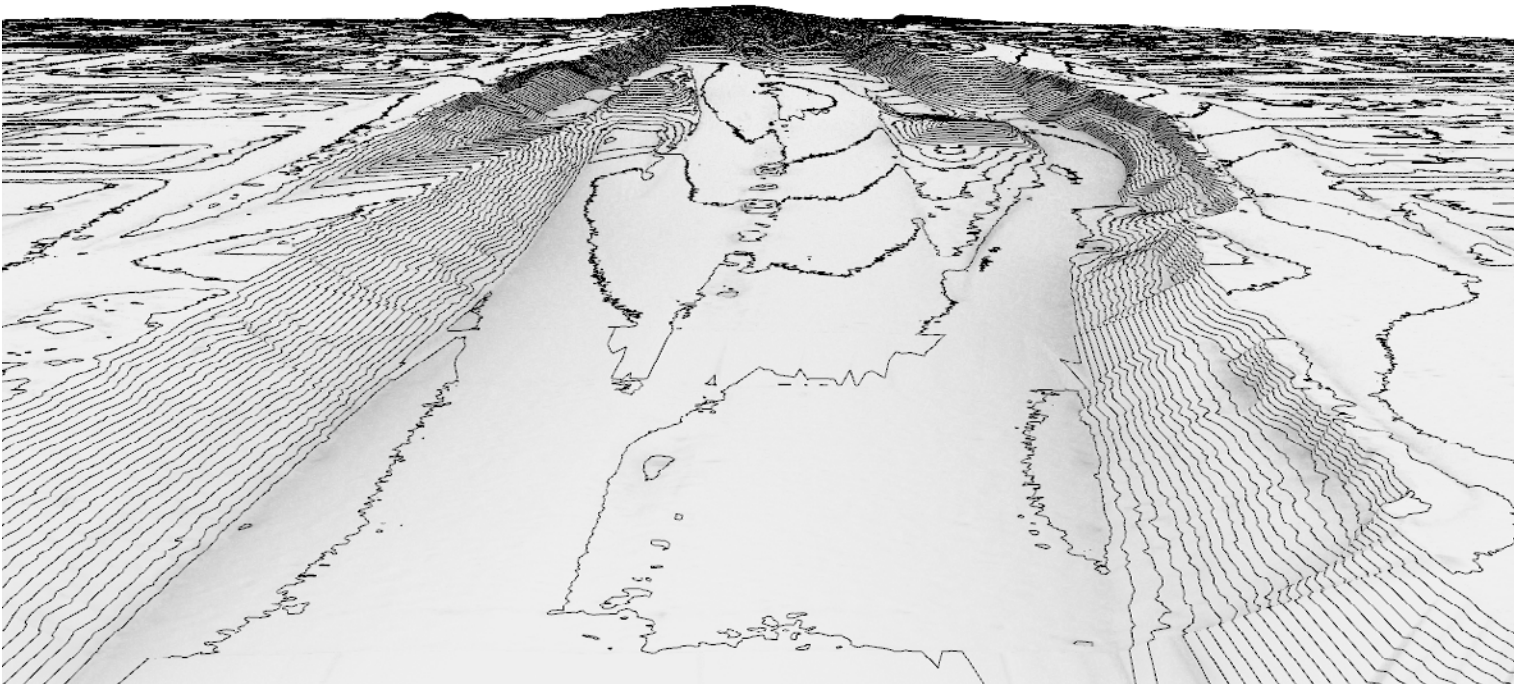
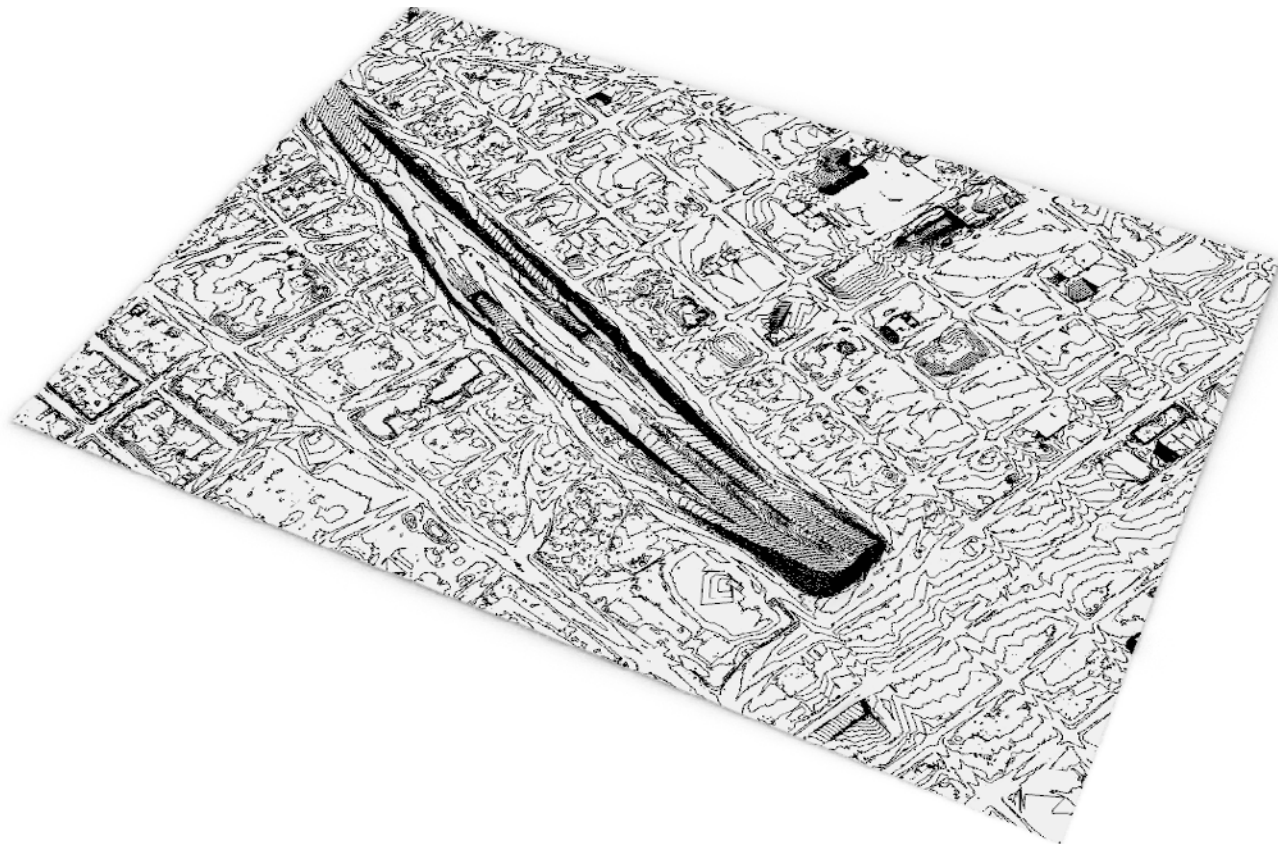
FINAL PROJECT IDEA:
LOCATION: I-980 OAKLAND, CA
TYPOLOGY: PEDESTRIAN BRIDGE / PLAY INFRASTRUCTURE



PROCESS:
I initially encountered file size issues when importing the .OBJ mesh into Rhino. Adjusting the area selection size in OpenTopography resolved the issue.

Given the site's urban context and my final project being a pedestrian bridge, integrating existing overpass infrastructure is crucial. I'm still exploring how to align/overlay the contoured mesh with roadway data from OpenStreetMap.

CONTOURS IN RHINO



COMPUTATIONAL JOURNAL | WEEK 5 - GRASSHOPPER

FINAL PROJECT IDEA:
LOCATION: I-980 OAKLAND, CA
TYPOLOGY: PEDESTRIAN BRIDGE / PLAY INFRASTRUCTURE



PROCESS:
This week, I explored Grasshopper to develop a script for a parametric slatted column, allowing for flexible control over spacing, rotation, and profile variations. I'm pleased with the script's capabilities and the design potential it offers. However, I may explore alternative column types for the pedestrian bridge support to better align with structural and aesthetic considerations. Moving forward, I'd like to refine the column's structural logic and find a way to seamlessly integrate it into the underside support of the bridge itself.

PRELIMINARY COLUMN DESIGN



PRELIMINARY BRIDGE PLAN

