Kris Reinicke
Archaeologist and GIS Certification Student
“..one of the world’s most spectacular slums”
Rodrigo de Figueroa
in Sepulveda 2003
Baltazar Vellerino de Villabos
in Sepulveda 2003
Unknown French Author
in Sepulveda 2003
Field Marshall and Inspector General
Alejandro O’Reily
Military Archives of Madrid
Spanish Military Engineers
San Juan National Historic Site
Has the shape of the Fortín transformed over time?

1890s
1780s
1897
1766
1650c.
1780s
Late 1600s
1780s
**Next Step: ArcGIS for AutoCAD**
Spanish Military Engineering Plans

1884 Manuel Wells

1889 Anonymous

Georeferencing

*Same scale for both plans.*
Spanish Military Engineering Plans

1884 Manuel Wells  
1889 Anonymous

ALE for both plans.

FOOTPRINTS
“The effort to ascertain and explain the relations between human behavior and material culture in all times and all places.”

-Michael B. Schiffer, Archaeologist and theorist
<table>
<thead>
<tr>
<th>Process Type</th>
<th>Descriptive name</th>
<th>Specific processes</th>
<th>Specific sub-processes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-A Processes</td>
<td>Cultural Deposition</td>
<td>Discard</td>
<td>Primary refuse</td>
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<td>Secondary refuse</td>
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<td>Maintenance processes</td>
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<td>Loss</td>
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<td>Ritual caches</td>
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<td>Disposal/treatment of the dead</td>
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<td>Abandonment</td>
<td>De facto refuse</td>
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<td>Curate behaviour</td>
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<td>A-S Processes</td>
<td>Reclamation processes</td>
<td>Reoccupation</td>
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<td>Reincorporation/salvage</td>
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<td>Scavenging</td>
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<td>Collecting/pothunting</td>
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<td>Archaeological excavation</td>
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<td>A-A Processes</td>
<td>Disturbance processes</td>
<td>Earth-moving processes</td>
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<td>Surface disturbances</td>
<td>Trampling</td>
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<td>Ploughing</td>
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<td>S-S Processes</td>
<td>Reuse processes</td>
<td>Lateral cycling</td>
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<td>Recycling</td>
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<td>Secondary use</td>
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<td>Conservatory processes</td>
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</table>
- What were the effects of abandonment in the mid 19th century by the Spanish military?

- What were the effects of community growth and residential construction on the Fortín?

Revellín de la Perla. Found in Sepúlveda 2003:28
1936 Aerial Photograph, USGS
Only time part of the fort is caught on film from above.
How have natural, non-cultural processes, impacted the Fortín?

1936

Found in Puerto Rico Ilustrado, August 1936
North Point
Archaeology for who?
Acknowledgments

- Loderay Bracero, GIS Technician at the Puerto Rican Institute of Culture
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Image Sources:


Pérez, Erick, Luis E. González Vales, and Aníbal Sepúlveda Rivera. 2008 San Juan de Puerto Rico: Permanencia en la memoria. Academia Puertorriqueña de la Historia, San Juan;


Sepúlveda Rivera, Aníbal. 2003 La Perla: Ensayo Fotográfico. Submitted to Architect Bonnin;