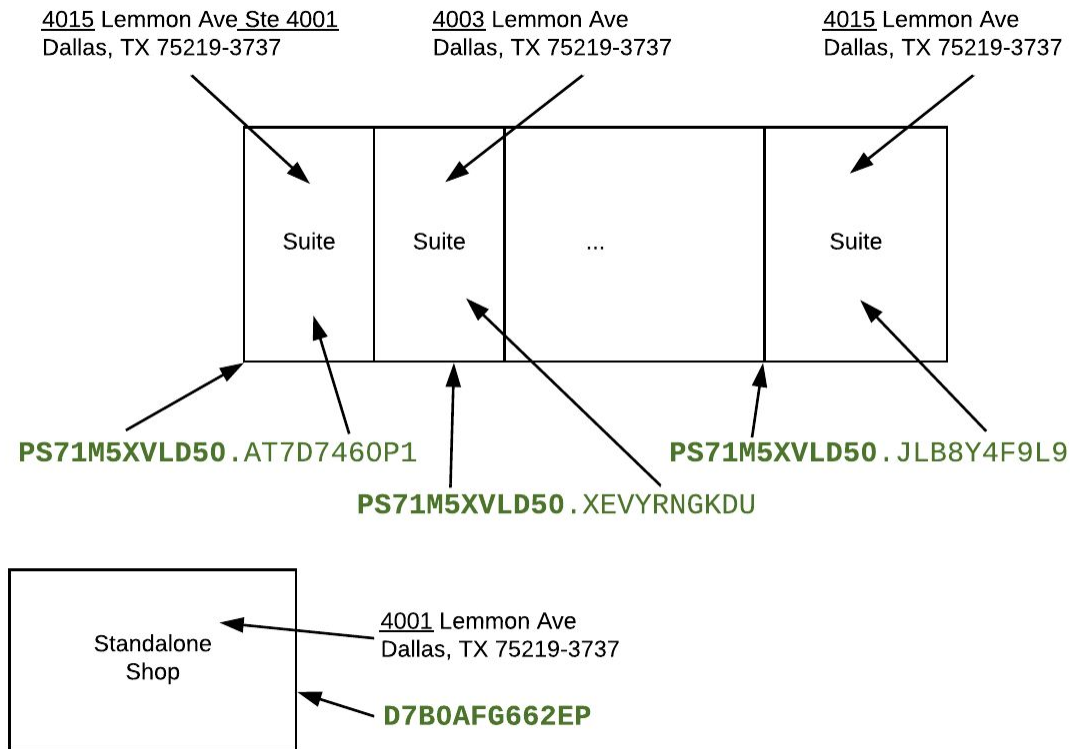


# StructureLocator™ Overview



## The Critical Distinctions:

1. **USPS Street Addresses as merely a messy Index into StructureLocator’s PCIL model** - Stop treating messy, inconsistent, poorly structured, textual data (even after having been normalized and standardized) intended as meaningfully descriptive for a human as the baseline for an effective, consistent, reliable, and resilient “database identifier”. Instead, leave the “virtual space” based street addresses alone entirely. And then merely use a street address as an index into a lookup for a “database identifier” baseline. The baseline has been aligned with a modeling scheme based on physical entities in reality which provides an effective, consistent, reliable, and resilient solution upon which computers and databases can depend.
2. **Reality-vs-Virtual** - The USPS street address scheme is a virtual association space which is only loosely and inconsistently anchored to physical entities in reality. As such, this 200+ year old association scheme contains numerous warts indicative of its having survived for so long in a rapidly changing world. Creating a scheme which treats reality as a much higher priority, and then anchors all of the data modeling on physical entities, eradicates many of the unpleasant artifacts which plague all street address schemes globally. Another term for this type of model is “[ground truth](#)”.

### Glossary of Terms:

- **StructureLocator™** - A mechanism for pointing to a structure (ex: building or parking lot) and its related subunits (apartments or suites for a building, spaces for a parking lot)
- **GSIL™** - Acronym for Global Structure Identification Label. This is the 12 character internally checksummed value as the primary and only required part of a PCIL. The GSIL represents a unique building structure; ex: a building. There is exactly one of these for each unique building. An example value for a building is “PS71M5XVLD50”.
- **LUIL™** - Acronym for Local Unit Identification Label. This is the 10 character internally, and with its parent GSIL, checksummed value as the secondary part of a PCIL. The LUIL represents a unique subunit of the building structure; ex: a specific suite in a building. There can be many of these within a building identified by a GSIL. An example value for a suite within building “PS71M5XVLD50” is “XEVYRNGKDU”.
- **PCIL™** - Acronym for Place Composition Identification Label. This is an instance of a collection of a GSIL (required), SSIL (optional) and LUIL (optional) checksummed value which is used to compose a unique identifier as a key which points to a particular set of building characteristics. There can be many of these for a particular building identified by the same GSIL. An example of an suite within building “SM0V4TGE2BP9” is “PS71M5XVLD50[SJ3].XEVYRNGKDU”.
- **SSIL™** - Acronym for Street Specifier Identification Label. This is the 3 character internally, and with its parent GSIL, checksummed value as the tertiary part of a PCIL. The SSIL represents a unique street of the building structure; ex: a specific suite in a building. There can be many of these next to a building identified by a GSIL. An example value for a suite within building “PS71M5XVLD50” is “SJ3”.