BUILDING FOOTPRINT Edit Protocols

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Overview

We (OTI) do not ordinarily perform research of our own to identify building changes. Our main goal is to work with DCP to get the BIN information that is in Geosupport/PAD synchronized with the BINs in Building Footprints- they should be the same. To this end, we don't want to perform our own research and duplicate the work that DCP is doing.

Editing Protocol

New buildings

- a. Try to capture the shape as accurately as possible. Ask about controls to create parallel lines and 90-degree angles if you don't know how to do this.
- **b.** If no imagery exists, use DOB BIS Zoning diagram and do the best you can.
- c. Try to keep the footprint inside the tax lot as much as possible, but only if it doesn't distort the shape too much. How much is too much? Let's start out with a maximum 2-foot deviation from the actual image building wall location.

- d. For all new building footprints we are deleting the old address point and adding a new one- this applies even if the house number does not change.
- e. Only use feature_code: placeholder with footprint shape triangles when necessary. These are necessary when start of construction is on hold or public safety insists on a placeholder. If you can make a good guess at the likely shape and location of the building footprint draw it.

Demolitions

- f. Copy the footprint from building and paste special into building_historic.
- g. Update the building_historic last_status_type to demolition and set the demolition_year.
- h. Bad buildings/sheds/corrections: If a footprint existed long enough to have a BIN and DCP wants it gone, move it to building_historic and set last_status_type to "Demolition." It is demolished from the database, not in meatspace.
- i. Leave all other attributes, including geom_source, alone.
- j. Delete the associated CSCL AddressPoint feature.
- k. Also check CSCL common places for possible deletions.
- I. Delete the existing CSCL AddressPoint and if there is a new building, create a new address point.
- m. If you demolished without DCP direction see #1 under tickets below

Merges or Splits

- n. **For Merge:** Set LAST_STATUS_TYPE to "Merged" for all footprints that will be merged. Copy all footprints that will be merged to BUILDING_HISTORIC. In BUILDING select all the footprints that will be merged. Merge them into the footprint with the BIN that will be retained. Set GEOM_SOURCE = "Other (Manual)." Check other attributes as necessary to see if they are still correct: BASE_BBL, FEATURE_CODE.
- o. **For Split**: Set LAST_STATUS_TYPE to "Split" for the footprint that will be split. Copy the footprint that will be split to BUILDING_HISTORIC. In BUILDING select the footprint that will be split. Split the footprint and assign the BINs to the new footprints as indicated in the ticket. The BIN assignments should be confirmed with DCP. Set GEOM_SOURCE = "Other (Manual)" Check other attributes as necessary to see if they are still correct: BASE_BBL, FEATURE_CODE.

p. **Notify FDNY**: Send email with a short explanation in the Subject Line (e.g. "Footprint was Split, DOITT_ID = ???????" or "Footprint was Merged, DOITT_ID = ???????") and include a screenshot with the BIN of the post-edit features in BUILDING feature class. This will be a temporary thing until FDNY is sure they are not missing anything important when we make these changes. Send mail to: Michael.Brady@fdny.nyc.gov, cc: mrahman@oti.nyc.gov. FDNY will not acknowledge this email.

Type 1 Alterations

- g. Set LAST_STATUS_TYPE = "Alteration"
- r. Copy and paste-special the original footprint to BUILDING_HISTORIC and populate the alteration_year.
- s. Modify the footprint in BUILDING.
- t. Set GEOM_SOURCE = "Other (Manual)" and change HEIGHT_ROOF, if necessary. This will allow the footprint to retain its DOITT_ID. The modified footprint will also retain the same BIN.

Attribute Protocol

NAME	Not critical. But if you see it in Cyclomedia add it.
BIN_NUMBER	If you can't find a BIN number for a new footprint or the
	DOB BIS record uses the same BIN as the demolished
	building, add a million BIN temporarily and create a ticket
	for DCP to provide a BIN for the structure.
	If DCP requests that we update a BIN just update it.
	Simple identifier changes do not need to be recorded in
	building_historic.
BASE BBL	The BASE_BBL is the BBL of the tax lot the footprint is
	physically located within.
CONSTRUCTION_YEAR	Use the year when the building is first visible (for
(building_historic	CONSTRUCTION_YEAR) or is no longer visible in imagery (for
DEMOLITION_YEAR)	DEMOLITION_YEAR
).
	Refer also to X-status in the Building Info System
	This can be NULL for placeholder buildings. Someone will
	return to it.
GEOM_SOURCE	"Other(manual)" is the default for standard digitizing

structed. Select alteration, split, marked
r merged as described here in the
Thirtyea as described here in the
egal values: Demolition or Alteration
gar varides. Demontion of Attendition
You can get it from plans in DOB BIS
make measurements on Cyclomedia or
y. Use only whole numbers, no decimal
to the nearest foot.
older buildings.
ult. An addressable structure with a BIN.
nstruction: We may remove this. Once
egun a building under construction is a
egun a bunding under construction is a
dressable outbuilding with a BIN that is
e.
al structure connecting two buildings that
a BIN.
addressable parking lots that have been
tadiessable parking lots that have been
y : For cases where there is a booth that
by the canopy footprint, we will create
rints. The booth will have a FEATURE_CODE
miss the booth will have a textfoldegeope
storage tanks (gas, liquids, grain, etc.)
a BIN.
e triangles we add when we have no data
add a new footprint.
: This is for a non-garage, non-
anent structures.
re: This would be for structures that are
out still are assigned BINs and have
mple would be trailers stationed
nstruction projects.
i ng : This is for buildings where some
print overhangs another building
ot a Skybridge, which is typically narrow
is an aerial bridge between two structures.

STATUS	Ignore. Not used.
GROUND_ELEVATION	Don't leave blank. Use elevation from Eagleview or
	Cyclomedia. Or if those are not applicable you can
	interpolate from planimetrics_2022.elevation. Don't
	guesstimate from neighboring buildings, that's oldskool.
ADDRESSABLE	Ignore. Not published. Defunct.
MAPPLUTO BBL	Ignore. Automatically updated each evening during building
	maintenance.
CONDO_FLAGS	Ignore . Not used.
ALTERATION_YEAR	Populate for type 1 alterations only.
(building_historic)	

Ticket Protocol

- 1. **Super Important!** If you demolish a building that did not come from a DCP ticket edit request, check to see if the BIN shows up in GOAT. If the BIN still shows up in GOAT, create a ticket for Manager DCP to inform them that the building was demolished. This is what I write in the ticket, feel free to copy it if you like. "Moved DOITT_ID/BIN 636668/3032880 to BUILDING_HISTORIC and deleted from BUILDING.
 - Deleted ADDRESSPOINTID 5166316 with HOUSE_NUMBER 1550 BEDFORD AV. Please update DCP records as necessary and close this ticket."
- 2. Create a new ticket for anything that is required from DCP that is not part of the original edit request. Assign it to Manager DCP.
- 3. If you must ask DCP for clarifications or questions for an edit ticket, use the Reassign option to do it. Reassign the ticket to the original creator or to Manager DCP, depending on your experience with the creator's likelihood of responding.
- 4. Try not to assign yourself more buildings tickets than you can work on in one day. This makes it easier to track what is getting done.
- 5. <u>For NEW Buildings found by OTI:</u> For any "new" buildings we find while performing our normal edits, **before creating a ticket to DCP requesting a BIN**,

check DOB BIS to see if the building is a Type 1 Alteration (no BIN change). If it is a Type 1 Alteration, we do not need to notify DCP. Edit the footprint per instructions for Type 1 Alterations above or create a ticket and assign it to the CSCL manager.

- 6. On DCP tickets when the say "resize" or "reshape" a footprint, always check DOB on Jobs/Filings:
 - a. If the building was demolished (DM), follow instructions above for Demolitions.
 - b. If the building was Altered, follow instructions above for Type 1 Alterations then make a copy of the footprint to BLDG_HISTORIC, reshape the original footprint on BLDG layer and check if Building Height changed and update on Attributes table.

Data Sources

Imagery:

- 1. Orthophotos: (even-numbered years) should all be available on https://nyc.maps.arcgis.com/
- 2. Pictometry/EagleView CONNECT web application and ArcMap Toolbar: You can add this imagery to your ArcGIS Pro document and heads-up digitize most buildings. If you don't know how to add this imagery, ask and we'll show you.
- 3. Cyclomedia: Don't forget that there are historical "cycloramas" you can switch to for imagery back to 2017. You can measure building heights in the StreetSmart web application.
- 4. Google maps (Street view): You can go back on historical "Street views" as early as 2007.

Vector:

- CSCL data: Use CSCL_PUB
 - a. CSCL_PUB is refreshed with CSCL data every week
 - b. ArcGIS Pro can read CSCL_PUB but not CSCL
 - c. Connect as CSCL_READ_ONLY to view CSCL_PUB
 - d. Add these layers
 - i. CSCL_PUB.AddressPoint
 - ii. CSCL_PUB.Centerline (inside CSCL_PUB.CSCL feature dataset)
 - iii. CSCL_PUB.CommonPlace
- 2. Park Structures

- a. Download and add when you need fresh DPR data
- b. https://data.cityofnewyork.us/dataset/NYC-Parks-Structures/n8q6-i44s
- 3. Planimetrics
 - a. Most layers are available on https://nyc.maps.arcgis.com/
 - b. Planimetrics buildings are loaded as BLDG.PLANIMETRICS. Use bldg_readonly to access
- 4. Tax Lots
 - a. https://services6.arcgis.com/yG5s3afENB5iO9fj/arcgis/rest/services/DTM_ETL_DAILY_view/FeatureServer/0
 - b. You will find the tax lots under:
 - i. https://services6.arcgis.com/yG5s3afENB5iO9fj/arcgis/rest/servic es
 - 1. DTM_ETL_DAILY_view
 - a. TAX_LOT_POLYGON
- 5. Address locator
 - a. T:\GIS\Internal\OTI Locator\current
 - b. Follow the instructions in "How to set up and use OTI NYC Locator in ArcGIS Pro.pdf"

Project Setup and Other Tips

- 1. AddressPoint labeling, VBScript
 - a. [HOUSE_NUMBER] & " " & [HOUSE_NUMBER_SUFFIX] & " " & [HOUSE_NUMBER_RANGE] & " " & [HOUSE_NUMBER_RANGE_SUFFIX] & " " & [FULL_STREET_NAME] & " " & [SPECIAL_CONDITION]
- 2. Dept of Building permit types
 - a. NB: New building, construction of new structures
 - b. ALT1: Major alterations that will change use, egress, or occupancy
 - c. ALT2: Multiple types of work not affecting use, egress, or occupancy
 - d. ALT3: One minor type of work not affecting use, egress, or occupancy
- 3. Get rid of "Click to add new row" in ArcGIS Pro tables
 - a. Options Application Table (check) "Hide the 'Click to add new row' option for feature class tables"