# Basic Questions

**(B-1) Contact information of person entering data**

**First Name**

**Last Name**

**Email**

**(B-2) Location of project**

**City**

**State/Province/Jurisdiction**

**Country**

**Latitude (if available)**

**Longitude (if available)**

**(B-4) Number of stories of original building (Enter a number with no commas or decimals. If the answer is "don't know" or "not applicable," please enter 999.)**

**(B-5) Approximate footprint of original building (Enter a number with no commas or decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

ft^2

**(B-6) Approximate gross floor area of original building (Include the floor area for all stories) (Enter a number with no commas or decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

ft^2

**(B-7) Does the building have a “heritage,” “historical” or “landmark” designation?**

- **Yes**
- **No**
- **Don't know**

Input designation description and other comments (e.g. is the designation local or national?):

**(B-8) Is the building located in a “heritage,” “historical” or other type of cultural conservation neighborhood/area?**

- **Yes**
- **No**
- **Don't know**

**(B-9) Prior to demolition/adaptation did the building have a cerification as a “green” building (e.g. BREEAM, Green Star, LEED, etc.)?**

- **Yes**
- **No**
- **Don't know**

Describe designation here and include other comments (e.g. is the designation local or national?):

**(B-10) Immediately prior to demolition/adaptation, who were the building’s owner(s) and primary occupant(s)?**

- **Private owner(s) / owner occupant(s)**
- **Private owner(s) / tenant occupant(s)**
- **Public owner(s) / public occupant(s)**
- **Public owner(s) / tenant occupant(s)**
- **Mixed**

Other:

**(B-11) What was the primary building occupancy immediately prior to demolition/adaptation? (Check all that apply.)**

- ☐ Commercial – retail
- ☐ Commercial – office
- ☐ Industrial
- ☐ Education
- ☐ Institutional (government/museum/jail/etc.)
- ☐ Religious
- ☐ Parking
- ☐ Assembly
- ☐ Health care
- ☐ Library
- ☐ Residential – single family
- ☐ Residential – multifamily
- ☐ Agriculture
- ☐ Other

**(B-12) What sentimental attachment (if any) did the community have to the building immediately prior to demolition/adaptation?**

- ○ **Strongly positive**
- ○ **Generally positive**
- ○ **Neutral/uninterested**
- ○ **Strong but mixed**
- ○ **Generally negative**
- ○ **Strongly negative**
- ○ **Don't know**

Comments:

**(B-13) Which of the following best describes the building's location?**

- ○ **Urban, commercial hub/downtown**
- ○ **Urban, mixed-use neighborhood**
- ○ **Urban, primarily residential**
- ○ **Urban, other**
- ○ **Suburban, commercial area**
- ○ **Suburban, mixed-use neighborhood**
- ○ **Suburban, primarily residential**
- ○ **Suburban, other**
- ○ **Rural**

**(B-14) During the demolition/adaption were other structures immediately adjacent to the building?**

- (●) **No adjacent structures**
- ( ) **Adjacent structure on one side**
- ( ) **Adjacent structure on two sides**
- ( ) **Adjacent structure on three or more sides**
- ( ) **Don't know**
- ( ) **Other**

Other comment:

**(B-15) Enter a brief description of the project scope**

# Mixed Adaptation/Demolition Project

## Mixed Questions

**(M-1) Regarding the wing/section of the building that was demolished, would adaptation have been a practical option for the following criteria:**

| | Impractical | Marginally/moderately impractical | Marginally/moderately practical | Practical | Don't know |
|---|---|---|---|---|---|
| Economically | ○ | ○ | ○ | ○ | ○ |
| Legally/socially | ○ | ○ | ○ | ○ | ○ |
| Physically/technically | ○ | ○ | ○ | ○ | ○ |

**(M-2) Regarding the portion of the building that was retained and adapted, would demolition have been a practical option for the following criteria:**

| | Impractical | Marginally/moderately impractical | Marginally/moderately practical | Practical | Don't know |
|---|---|---|---|---|---|
| Economically | ○ | ○ | ○ | ○ | ○ |
| Legally/socially | ○ | ○ | ○ | ○ | ○ |
| Physically/technically | ○ | ○ | ○ | ○ | ○ |

**(M-3) To what degree did the following items motivate or necessitate the adaptation portion of the project?**

| | Primary motivator / reason | Contributing motivator / reason | Non-factor / does not apply | Don't know |
|---|---|---|---|---|
| Building services (plumbing, HVAC, electrical, elevators) were conducive to adaptation/replacement/reuse | ○ | ○ | ○ | ○ |
| Building enclosure was conducive to adaptation/replacement/reuse | ○ | ○ | ○ | ○ |
| Building structure was conducive to adaptation | ○ | ○ | ○ | ○ |
| Building foundation was conducive to adaptation/replacement/reuse | ○ | ○ | ○ | ○ |
| Building space plan was conducive to adaptation/replacement/reuse | ○ | ○ | ○ | ○ |

**(M-4) To what degree did the following items motivate or necessitate this project?**

| | Primary motivator / reason | Contributing motivator / reason | Non-factor / does not apply | Don't know |
|---|---|---|---|---|
| Site contained hazardous materials | | | | |
| Zoning restrictions/changes | | | | |
| Changing land values | | | | |
| Uncertain or volatile market conditions | | | | |

**(M-5) Approximately what percentage of the original building was completely demolished? (Enter a number from 0 - 100 with no decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(M-6) To what degree did the following items motivate or necessitate the demolition portion of this project?**

| | Primary motivator / reason | Contributing motivator / reason | Non-factor / does not apply | Don't know |
|---|---|---|---|---|
| Damage from fire, earthquake, windstorm or other extreme event | | | | |
| Structural issues other than from an extreme event | | | | |
| Water damage and/or mold | | | | |
| Building contained hazardous materials (i.e. asbestos) | | | | |
| Building removed to accommodate public infrastructure project | | | | |
| Lack of maintenance/poor physical condition | | | | |
| Site is being used for a new building or new development | | | | |

| | | | | |
|---|---|---|---|---|
| Not enough market demand for building/low occupancy | | | | |
| Outdated/undesirable appearance | | | | |
| Lack of natural lighting | | | | |
| Lack of energy efficiency | | | | |
| Lack of code compliance | | | | |
| Original construction was of low quality | | | | |
| Code restrictions limiting size and height of building | | | | |
| Taxes or other government disincentives | | | | |
| Building did not meet occupancy needs | | | | |
| Building did not meet size needs | | | | |
| Building did not meet functional needs | | | | |
| Too expensive to upgrade/maintain building systems (plumbing, HVAC, electrical, elevators) | | | | |
| Too expensive to upgrade/maintain building enclosure (roof/exterior walls) | | | | |
| Too expensive to upgrade/maintain building appearance | | | | |
| Too expensive to upgrade/maintain structure/foundation | | | | |
| Too expensive to remodel space plan | | | | |
| Uncertainty regarding the condition/longevity of the building systems (plumbing, HVAC, electrical, elevators) | | | | |
| Uncertainty regarding the condition/longevity of the building enclosure (roof/exterior walls) | | | | |
| Uncertainty regarding the condition/longevity of the structure and/or foundation | | | | |
| Location was undesirable | | | | |

| | | | | |
|---|---|---|---|---|
| Long distance to cultural amenities/public spaces | | | | |
| Long distance to public transportation | | | | |
| Lack of parking | | | | |
| Lack of skilled workers if building was to be adapted | | | | |
| Inability to meet “green” building targets if building was to be adapted | | | | |

**(M-9) To what degree were the following changes made to the portion of the building that was adapted (other than adaptions at the interface with the demolished wing/section)?**

| | Significant - greater than 80% | Moderate - greater than 20% | Minor - less than 20% | Not changed / does not apply | Don't know |
|---|---|---|---|---|---|
| Cosmetic changes to exterior | | | | | |
| Cosmetic changes to interior | | | | | |
| Upgrade/replacement of building services (plumbing, HVAC, electrical, elevators) | | | | | |
| Upgrade/replacement of structure | | | | | |
| Upgrade/replacement of foundation | | | | | |
| Upgrade/replacement of roof | | | | | |
| Upgrade/replacement of exterior walls | | | | | |
| Changes to space plan | | | | | |
| Change of occupancy | | | | | |

**(M-10) To what degree did the following items motivate or necessitate the adaptation portion of the project?**

| | Primary motivator / reason | Contributing motivator / reason | Non-factor / does not apply | Don't know |
|---|---|---|---|---|
| Damage from fire, earthquake, windstorm or other extreme event | ○ | ○ | ○ | ○ |
| Structural issues other than from an extreme event | ○ | ○ | ○ | ○ |
| Water damage and/or mold | ○ | ○ | ○ | ○ |
| Adapted portion of building contained hazardous materials (i.e. asbestos) | ○ | ○ | ○ | ○ |
| Site contains hazardous materials | ○ | ○ | ○ | ○ |
| Adaptation to accommodate public infrastructure project | ○ | ○ | ○ | ○ |
| Lack of maintenance/poor physical condition of adapted portion | ○ | ○ | ○ | ○ |
| Not enough market demand for building in its pre-adapted condition/low occupancy | ○ | ○ | ○ | ○ |
| Outdated/undesirable appearance of adapted portion | ○ | ○ | ○ | ○ |
| Lack of natural lighting | ○ | ○ | ○ | ○ |
| Lack of energy efficiency of adapted portion | ○ | ○ | ○ | ○ |
| Lack of code compliance of adapted portion | ○ | ○ | ○ | ○ |
| Original construction of adapted portion was of low quality | ○ | ○ | ○ | ○ |
| Code restrictions limiting size and height of building | ○ | ○ | ○ | ○ |
| Zoning restrictions/changes | ○ | ○ | ○ | ○ |

| | | | | |
|---|---|---|---|---|
| Changing land values | ○ | ○ | ○ | ○ |
| Building did not meet occupancy/functional needs in pre-adapted condition | ○ | ○ | ○ | ○ |
| Building did not meet size needs in pre-adapted condition | ○ | ○ | ○ | ○ |
| Difficulty/expense of maintenance in pre-adapted condition | ○ | ○ | ○ | ○ |
| Desirability of building location | ○ | ○ | ○ | ○ |
| Long distance to cultural amenities/public spaces | ○ | ○ | ○ | ○ |
| Long distance to public transportation | ○ | ○ | ○ | ○ |
| Lack of parking | ○ | ○ | ○ | ○ |
| Difficulty/expense of maintenance in pre-adapted condition | ○ | ○ | ○ | ○ |
| Owner's desire for sustainability | ○ | ○ | ○ | ○ |
| Availability of skilled workers for adaptation | ○ | ○ | ○ | ○ |
| Availability to meet "green" building targets through adaptation | ○ | ○ | ○ | ○ |
| Desire to retain and/or attract tenants | ○ | ○ | ○ | ○ |

**(M-11) Other than the items listed in the previous question, were there other primary factors that led to the decision to adapt sections of the building?**

**(M-12) If occupancy of the adapted section changed, what are the new occupancies? (Check all that apply.)**

- ☐ Occupancy did not change
- ☐ Residential – single family
- ☐ Residential – multifamily
- ☐ Commercial – retail
- ☐ Commercial – office
- ☐ Commercial - other
- ☐ Industrial
- ☐ Education
- ☐ Institutional (government/museum/jail/etc.)
- ☐ Religious
- ☐ Parking
- ☐ Assembly
- ☐ Health care
- ☐ Library
- ☐ Other

**(M-13) To what degree did the pre-adapted design facilitate or impede adaptation?**

| | Significant facilitator | Moderate facilitator | Non-factor (or not applicable) | Moderate impedance | Significant impedance | Don't know |
|---|---|---|---|---|---|---|
| Space plan | ○ | ○ | ○ | ○ | ○ | ○ |
| Exterior walls | ○ | ○ | ○ | ○ | ○ | ○ |
| Roof type and shape | ○ | ○ | ○ | ○ | ○ | ○ |
| Foundation | ○ | ○ | ○ | ○ | ○ | ○ |
| Structure | ○ | ○ | ○ | ○ | ○ | ○ |
| HVAC | ○ | ○ | ○ | ○ | ○ | ○ |
| Plumbing | ○ | ○ | ○ | ○ | ○ | ○ |
| Electrical | ○ | ○ | ○ | ○ | ○ | ○ |

**(M-14) To what degree were the as-built (pre-adapted) conditions documented/readily observable for the following items/systems? Consider all relevant information, such as: plans, material data, models, calculations, test reports, photos, visual observations.**

| | Almost no information was available. Extensive work was required to document the as-built conditions. | Some information was available. Moderate effort was required to document as-built conditions. | Some information was available. Marginal or no additional effort was made to document the as-built conditions. | As-built conditions were well documented. Little or no effort was taken to further document conditions. | As-built conditions were exceptionally well documented. | Don't know |
|---|---|---|---|---|---|---|
| Space plan | ○ | ○ | ○ | ○ | ○ | ○ |
| Exterior walls | ○ | ○ | ○ | ○ | ○ | ○ |
| Roof type and shape | ○ | ○ | ○ | ○ | ○ | ○ |
| Foundation | ○ | ○ | ○ | ○ | ○ | ○ |
| Structure | ○ | ○ | ○ | ○ | ○ | ○ |
| HVAC | ○ | ○ | ○ | ○ | ○ | ○ |
| Plumbing | ○ | ○ | ○ | ○ | ○ | ○ |
| Electrical | ○ | ○ | ○ | ○ | ○ | ○ |

**(M-15) Which, if any, of the following adaptations were made? (Leave blank if not applicable.)**

**Vertical addition: enter number of stories.**

**Horizontal addition: enter addition size relative to original footprint. Addition is __% of original footprint.**

**(M-16) Does the adapted building have a cerification as a "green" building (e.g. BREEAM, Green Star, LEED, etc.)?**

○ **Yes**

○ **No**

○ **Don't know**

**Describe designation here and include other comments (e.g. is the designation local or national?):**

**(M-19) Year original building construction was completed**

**Year**

**If unknown, provide best estimate here**

**If the building was adapted or constructed in multiple phases, enter description here:**

**(M-20) Years of this demolition/adaptation project.**

**Year demolition/adaptation began**

**Year demolition/adaptation was completed**

# Adaptation Questions

## Space Plan Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(SP-1) Main floor: For only the portion of the building that was adapted, draw rectangles on the pre-adapted floor plan such that they do not cross through each other or structural elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? (Enter numbers with no commas or decimals. If you draw fewer than five rectangles, enter 0 as the area for each unused rectangle.)** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-2 ) Main floor: For only the portion of the building that was adapted, draw rectangles on the pre-adapted floor plan such that they do not cross through each other or structural elements or service elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? (Enter numbers with no commas or decimals. If you draw fewer than five rectangles, enter 0 as the area for each unused rectangle.)**

Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-3) Main floor: For only the portion of the building that was adapted draw rectangles on the pre-adapted floor plan such that they do not cross through each other or structural elements or service elements or partition elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? (Enter numbers with no commas or decimals. If you draw fewer than five rectangles, enter 0 as the area for each unused rectangle.)** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-4) Main floor: For only the portion of the building that was adapted, but prior to adaptation, what was the distance from finish floor of the main level to the finish floor of the next level up? Do not consider atriums or other vertical openings for this question. If this was a one-story building, enter dimension from the finish floor to the bottom of roof structure. (Enter a number with no commas or decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

ft

**(SP-5) Typical upper floor: For only the portion of the building that was adapted, draw rectangles on the pre-adapted floor plan such that they do not cross through each other or structural elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? If there is no "typical" upper floor, then make a note in the comments and answer the question using the floor immediately above the main floor. (Enter numbers with no commas or decimals. If you draw fewer than five rectangles, enter 0 as the area for each unused rectangle.)** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**Notes:**

**(SP-6) Typical upper floor: For only the portion of the building that was adapted, draw rectangles on the pre-adapted floor plan such that they do not cross through each other or structural elements or service elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? (Enter numbers with no commas or decimals. If you draw fewer than five rectangles, enter 0 as the area for each unused rectangle.)** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-7 ) Typical upper floor: For only the portion of the building that was adapted, draw rectangles on the pre-adapted floor plan such that they do not cross through each other or structural elements or service elements or partition elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? (Enter numbers with no commas or decimals. If you draw fewer than five rectangles, enter 0 as the area for each unused rectangle.)**
Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-8 ) Typical upper floor: For only the portion of the building that was adapted, but prior to adaptation, what was the typical distance from finish floor to finish floor? Do not consider atriums or other vertical openings for this question. If this is a two-story building, enter dimension from the finish second floor to the bottom of roof structure. (Enter a number with no commas or decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

ft

**Notes:**

**(SP-9) For the portion of the building that was adapted, but prior to adaptation, did the main floor of the building portion include spaces that extended upward beyond the height of any upper floors, such as atriums or multi-story lobbies? Or, did the pre-adapted main floor include spaces with ceiling heights greater than 20 feet (6.1 meters), such as gymnasiums, convention halls or auditoriums? If yes, estimate percentage of main floor covered by these spaces.**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**If yes, estimate percentage of main floor covered by these spaces. (Enter a number from 0 - 100 with no decimals.)**

**(SP-10) For the portion of the building that was adapted, but prior to adaptation, to what degree could the floor plan be characterized as having repetitive/interchangeable spaces? For example, hotels often have highly repetitive/interchangeable floor plans.**

- ◯ Highly repetitive/interchangeable
- ◯ Mostly repetitive/interchangeable
- ◯ Somewhat repetitive/interchangeable
- ◯ Not repetitive/interchangeable
- ◯ Don't know

**(SP-11) For the portion of the building that was adapted, but prior to adaptation, to what degree did the floor plan include non-perpendicular walls? For example, did the plan include angled or curved walls?**

Click here for more info.

- ◯ Common throughout the building
- ◯ Common in parts of building
- ◯ Occurs in few instances
- ◯ Never occurs
- ◯ Don't know

**(SP-12) For the portion of the building that was adapted, but prior to adaptation, to what degree did the interior spaces include non-vertical boundaries?**

Click here for more info.

- ◯ Common throughout the building
- ◯ Common in parts of building
- ◯ Occurs in few instances
- ◯ Never occurs
- ◯ Don't know

**(SP-13) For the portion of the building that was adapted, but prior to adaptation, to what degree did the interior spaces of the building include stepped and/or ramped floors (excluding ramps associated with accessibility codes)?**

Click here for more info.

- ◯ Common throughout the building
- ◯ Common in parts of building
- ◯ Occurs in few instances
- ◯ Never occurs
- ◯ Don't know

**(SP-14) For the portion of the building that was adapted, but prior to adaptation, were common elements of the interior materials stocked/readily available as replacements? For example, ceiling tiles, floor carpet tile/squares, wall panels.**

- ◯ Yes, many elements stocked/available
- ◯ Yes, some
- ◯ Yes, few
- ◯ No
- ◯ Don't know

**(SP-15) For the portion of the building that was adapted, was the original (pre-adaptation) floor/site plan intentionally designed to allow for future expansion?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**If yes, explain here:**

**(SP-16) For the portion of the building that was adapted, could the original (pre-adaptation) building footprint be expanded on the existing site?**

- ◯ Yes
- ◯ No
- ◯ Don't know

**What percentage of growth? (Enter a number from 0 - 100 with no decimals.)**

**(SP-17) At the time of adaptation, was the to-be-adapted portion's height restricted by adjacent features, buildings, and/or code restrictions?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(SP-18) For the portion of the building that was adapted, but prior to adaptation, did the building include intentionally designed passive lighting features (e.g. skylights, interior glass panels in walls and doors)?**

- ○ **Yes**
- ○ **No**
- ○ **Don't know**
- ○ **Not applicable**

**(SP-19) For the portion of the building that was adapted, what percentage of the pre-adapted floor area was within 12 ft (4 m) of an exterior wall? (If it varies by floor, select a typical floor.)**
Click here for more info.

- ○ **>90%**
- ○ **90% - 50%**
- ○ **50% or less**
- ○ **Don't know**

# Envelope Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(E-1) For the portion of the building that was adapted, but prior to adaptation, select all materials used in exterior (shell) walls of the pre-adapted portion. Check all that apply.**

- ☐ Concrete
- ☐ Concrete stucco
- ☐ Brick
- ☐ CMU block
- ☐ Stone
- ☐ Metal
- ☐ Vinyl siding
- ☐ Glass
- ☐ Wood
- ☐ Unitized curtain wall system
- ☐ Other

**(E-2) For the portion of the building that was adapted, but prior to adaptation, select all materials used in the roof shell/envelope of the pre-adapted portion. Check all that apply.**

- ☐ Concrete
- ☐ Concrete tile
- ☐ Metal
- ☐ Copper
- ☐ Asphalt shingles
- ☐ Asphalt membrane
- ☐ Slate
- ☐ Wood
- ☐ PVC (vinyl) membrane roofing
- ☐ Green roof
- ☐ Other

**(E-3) Based on the original (pre-adaptation) roof materials and configuration of the adapted portion, what was the expected maintenance/replacement interval?**

- ○ **< 10 years**
- ○ **10-20 Years**
- ○ **20+ years**
- ○ **Don't know**
- ○ **Other**

**(E-4) For the portion of the building that was adapted, but prior to adaptation, what roof shapes were present? Check all that apply.**

- ☐ Sloped
- ☐ Flat
- ☐ Dome/barrel
- ☐ Gable
- ☐ Hip
- ☐ Other

**(E-5) For the portion of the building that was adapted, but prior to adaptation, to what degree were exterior walls protected by roof overhangs?**

- ○ **Completely (approx 100%)**
- ○ **Mostly (over 50%)**
- ○ **Somewhat (less than 50%)**
- ○ **Not at all**
- ○ **Don't know**

**(E-6) For the portion of the building that was adapted, but prior to adaptation, to what degree were exterior wall elements of the pre-adapted portion repetitive and/or identical?**

- Primarily repetitive/identical; few unique conditions
- Somewhat repetitive/identical; some differing conditions
- Not repetitive/identical; many differing conditions
- Other

**(E-7) For the portion of the building that was adapted, but prior to adaptation, what percentage of exterior wall area was composed of fenestrations? (estimate to the nearest 20%)**

- >= 80
- 80
- 60
- 40
- 20
- < 20%

**(E-8) For the portion of the building that was adapted, but prior to adaptation, were the exterior walls primarily vertical?**

- Exclusively vertical
- Primarily vertical, few walls are non-vertical
- Non-vertical walls are present throughout
- Other

**(E-9) For the portion of the building that was adapted, but prior to adaptation, were common elements of the envelope stocked on site (or otherwise readily available) as replacements?**

- Yes, many elements stocked/available
- Yes, some
- Yes, few
- No
- Don't know

**(E-10) For the portion of the building that was adapted, but prior to adaptation, were exterior walls load bearing?**

- Exterior walls are load bearing with no exceptions
- 50% or more of the exterior walls are load bearing
- Less than half of the exterior walls are load bearing
- No exterior walls are load-bearing
- Don’t know
- Other

**(E-11) For the portion of the building that was adapted, to what degree could wall insulation in the pre-adapted portion be removed or replaced without cutting/damaging structural elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know
- ◯ Other

**(E-12) For the portion of the building that was adapted, but prior to adaptation, to what degree could roof insulation be removed or replaced without cutting/damaging structural elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know
- ◯ Other:

**(E-13) For the portion of the building that was adapted, but prior to adaptation, how difficult was it to visually assess the roof envelope's integrity?**

- ◯ Difficult
- ◯ Somewhat difficult
- ◯ Neutral
- ◯ Somewhat easy
- ◯ Very easy
- ◯ Don't know

**Reasons for answer:**

**(E-14) For the portion of the building that was adapted, but prior to adaptation, how difficult was it to visually assess the wall envelope's integrity?**

- ◯ Difficult
- ◯ Somewhat difficult
- ◯ Neutral
- ◯ Somewhat easy
- ◯ Very easy
- ◯ Don't know

**Reasons for answer:**

**(E-15) For the portion of the building that was adapted, but prior to adaptation, to what degree could fenestrations be removed or replaced without cutting/removing other building elements?**

- ◯ Extensive cutting/removal of other elements required
- ◯ Some cutting/removal of other elements required
- ◯ Very litte cutting/removal of other elements required
- ◯ Don't know
- ◯ Other

**(E-16) For the portion of the building that was adapted, but prior to adaptation, to what degree could segments or elements of the exterior walls be removed or replaced without cutting/removing other building elements?**

- ◯ Extensive cutting/removal of other elements required
- ◯ Some cutting/removal of other elements required
- ◯ Very litte cutting/removal of other elements required
- ◯ Don't know
- ◯ Other

**(E-17) For the portion of the building that was adapted, but prior to adaptation, did the main floor design include opening(s) in the envelope/façade larger than standard doors?**

- ◯ Yes
- ◯ No
- ◯ Don't know

**(E-18) For the portion of the building that was adapted, but prior to adaptation, did the pre-adapted glazing satisfy current sustainability standards (e.g. solar heat gain, thermal transmittance, daylighting, heat transmission, visible transmittance)?**

- ◯ Yes, glazing exceeded relevant standards
- ◯ Yes, glazing met relevant standards
- ◯ No, glazing did not meet standards
- ◯ Don't know

**(E-19) For the portion of the building that was adapted, but prior to adaptation, could the envelope/façade be safely removed from inside of the building, or did it require external access to remove it?**

- ◯ Yes, it could be removed from inside of the building
- ◯ No, external access was required to remove the façade
- ◯ Don't know
- ◯ Other:

# Services Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(Ser-1) For the portion of the building that was adapted, how did the pre-adaptation energy use compare to a similarly-sized typical newly-constructed building in the same neighborhood?**

- ◯ More efficient than new building
- ◯ Approximately the same as new building
- ◯ Less efficient than new building
- ◯ Don't know

**(Ser-2) For the portion of the building that was adapted, but prior to adaptation, did the building feature on-site power generation, i.e., solar panels, wind turbine, peak shaving generator, etc. (excluding emergency power generation)?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-3) If the answer to the previous question was "yes," what was the estimated annual kWH output the system provided?**

**(Ser-4) For the portion of the building that was adapted, but prior to adaptation, was emergency power provided via an emergency generator?**

- ◯ Yes, the entire building load can be fed from the emergency generator
- ◯ Yes, life safety, legally required standby, and select optional standby loads can be fed from emergency generator
- ◯ Yes, only life safety and legally required standby loads can be fed from the emergency generator
- ◯ No
- ◯ Don't know

**(Ser-5) What was the size (in kW) of the emergency generator?**

**(Ser-6) For the portion of the building that was adapted, did the original (pre-adaptation) design include passive heating/cooling features (e.g. intentional thermal mass, natural ventilation)?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-7) For the portion of the building that was adapted, but prior to adaptation, was the ductwork characterized as exposed?**

- ◯ Yes, in most/all of building
- ◯ Yes, in some parts of building
- ◯ Not at all
- ◯ Don't know
- ◯ Not applicable

**(Ser-8) For the portion of the building that was adapted, but prior to adaptation, was the ductwork insulated?**

- ◯ Yes, internally insulated
- ◯ Yes, externally insulated
- ◯ Not at all
- ◯ Don't know
- ◯ Not applicable

**(Ser-9) For the portion of the building that was adapted, but prior to adaptation, was a raised plenum system utilized?**

- ◯ Yes, throughout building
- ◯ Yes, in most of building
- ◯ Yes, in some parts of building
- ◯ Not at all
- ◯ Don't know

**(Ser-10) For the portion of the building that was adapted, but prior to adaptation, was the ceiling characterized by drop panels (ceiling grid and panels)?**

- ◯ Yes, throughout building
- ◯ Yes, in most of building
- ◯ Yes, in some parts of building
- ◯ Not at all
- ◯ Don't know

**(Ser-11) For the portion of the building that was adapted, but prior to adaptation, what percentage of the total floor area was made up of mechanical rooms and spaces (chases and shafts)? (Enter a number 0 - 100 with no decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(Ser-12) For the portion of the building that was adapted, but prior to adaptation, were the mechanical and electrical chases able to accommodate additional pipes and conduit?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-13) For the portion of the building that was adapted, but prior to adaptation, to what degree were plumbing lines accessible without cutting or disassembling other building components?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know

**(Ser-14) For the portion of the building that was adapted, but prior to adaptation, could wires be pulled through the conduit (i.e. was rigid conduit used for the majority of the feeders and branch circuits)?**

- Yes; can be pulled for the majority of feeders and branch circuits
- No; can be pulled for the majority of feeders, but not branch circuits
- No; cannot be pulled for feeders nor branch circuit
- Don't know

**(Ser-15) For the portion of the building that was adapted, but prior to adaptation, to what degree were electrical chases accessible without cutting or disassembling other building components?**

- Completely
- Mostly
- Somewhat
- Not at all
- Don’t know

**(Ser-16) For the portion of the building that was adapted, but prior to adaptation, was the HVAC system better characterized as avant-garde or tried-and-true?**

- Avant-garde
- Neutral
- Tried-and-true
- Don’t know

**(Ser-17) For the portion of the building that was adapted, at the time of adaptation, what was the estimated age (in years) of the HVAC system?(Enter a number with no commas or decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(Ser-18) For the portion of the building that was adapted, but prior to adaptation, was the HVAC system characterized by repetitive/identical elements?**

- Completely
- Mostly
- Somewhat
- Not at all
- Don’t know

**(Ser-19) For the portion of the building that was adapted, but prior to adaptation, did the HVAC systems allow for the addition of multiple zones?**

- Yes, in most/all of building
- Yes, in some parts of building
- No
- Don't know
- Not applicable
- Other

**(Ser-20) For the portion of the building that was adapted, but prior to adaptation, was the plumbing system characterized by repetitive/identical elements?**

- Completely
- Mostly
- Somewhat
- Not at all
- Don't know

**(Ser-21) For the portion of the building that was adapted, but prior to adaptation, was the lighting system characterized by repetitive/identical elements?**

- Completely
- Mostly
- Somewhat
- Not at all
- Don't know

**(Ser-22) For the portion of the building that was adapted, but prior to adaptation, what was the primary lighting source for most spaces?**

- Incandescent
- T-12 fluorescent
- Other fluorescent
- HID
- LED
- Don't know
- Other

**(Ser-23) For the portion of the building that was adapted, but prior to adaptation, was the lighting controls system characterized as avant-garde, tried-and-true, or archaic/non-existant?**

- Avant-garde
- Neutral
- Tried-and-true
- Archaic/non-existant
- Don't know

**(Ser-24) For the portion of the building that was adapted, but prior to adaptation, were common elements of the mechanical/electrical/plumbing system stocked on site as replacements?**

- Very many
- Many
- Some
- None
- Don't know

**(Ser-25) For the portion of the building that was adapted, but prior to adaptation, was the HVAC system better characterized as centralized or distributed?**

- Centralized
- Somewhat centralized
- Neutral
- Somewhat distributed
- Distributed
- Don't know

**(Ser-26) For the portion of the building that was adapted, but prior to adaptation, was the water supply metering divisible by different building areas/zones?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-27) For the portion of the building that was adapted, but prior to adaptation, was the electrical supply metering divisible by different building areas/zones?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-28) For the portion of the building that was adapted, but prior to adaptation, was the gas supply metering divisible by different building areas/zones?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-29) For the portion of the building that was adapted, at the time of adaptation, what was the estimated age (in years) of the electrical distribution system? (Enter a number with no decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(Ser-30) For the portion of the building that was adapted, but prior to adaptation, where were the vertical HVAC/plumbing chases located?**

- ☐ Along exterior walls
- ☐ Within non-bearing walls
- ☐ Adjacent to structural elements
- ☐ Centrally located core
- ☐ Distibuted throughout
- ☐ None of the above
- ☐ Don't know

**(Ser-31) For the portion of the building that was adapted, but prior to adaptation, did the building have reserve electrical capacity beyond its current needs?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-32) For the portion of the building that was adapted, but prior to adaptation, did the building have reserve chilled and/or heating water supply/return capacity beyond its current needs?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-33) For the portion of the building that was adapted, but prior to adaptation, did the building heating system use gas, electricity, or steam/hot water for the majority of the heating loads?**

- ○ **Gas**
- ○ **Electricity**
- ○ **Steam/hot water**
- ○ **Don't know**
- ○ **Not applicable**
- ○ **Other**

## Structural Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(Str-1) For the portion of the building that was adapted, but prior to adaptation, what type of system(s) was used to carry gravity loads? Check all that apply.**

- ☐ Concrete - cast-in-place
- ☐ Concrete - precast
- ☐ Concrete - prestressed
- ☐ Steel - cold formed
- ☐ Steel - rolled shapes
- ☐ Steel - trusses / joists
- ☐ Wood - post and beam
- ☐ Wood - stud wall
- ☐ Wood - prefabricated elements
- ☐ Brick/masonry
- ☐ Other

**(Str-2) For the portion of the building that was adapted, but prior to adaptation, what type of system(s) was used to carry lateral loads? Check all that apply.**

- ☐ Concrete - moment frames
- ☐ Concrete - shear walls
- ☐ Steel - moment frames
- ☐ Steel - braced frames
- ☐ Wood - shear walls
- ☐ Wood - other
- ☐ Brick/masonry - shear walls
- ☐ Other

**(Str-3) In the original (pre-adapted) design, was the design live load (LL) consistent throughout the portion of the building that was adapted?**

- ◯ Yes
- ◯ No
- ◯ Don't know

**(Str-4) For the portion of the building that was adapted, what was the design live load (LL) used in the original (pre-adaptation) design? (If the live load varies, enter the value that covers the greatest portion of the building portion. If the design live load is not known, input the live load associated with the current occupancy. If your answer is "don't know" or "not applicable," please enter 999.)**

[ ] psf

**(Str-5) In its original (pre-adapted) design, was the structure of the adapted portion intentionally designed for future additions?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Other

Describe

[ ]

**(Str-6) In its original (pre-adapted) condition, to what degree did the lateral force resisting system (LFRS) of the adapted portion satisfy current code requirements?**

- ◯ Generally exceeded current code requirements
- ◯ Generally met current code requirements
- ◯ Violated some requirements of current code
- ◯ Violated numerous requirements of current code
- ◯ Don't know

**(Str-7) In its original (pre-adapted) condition, to what degree did the gravity load resisting system (GFRS) of the adapted portion satisfy current code requirements?**

- ◯ Generally exceeded current code requirements
- ◯ Generally met current code requirements
- ◯ Violated some requirements of current code
- ◯ Violated numerous requirements of current code
- ◯ Don't know

**(Str-8) In its original (pre-adapted) condition, did the structure of the adapted portion feature any specialized structural elements?**

- ◯ Yes, throughout the building
- ◯ Yes, in isolated portions of building
- ◯ No
- ◯ Don't know

**(Str-9) In its original (pre-adapted) condition, was the lateral force resisting system (LFRS) of the adapted portion better characterized as distributed through many elements or concentrated in a few elements?**

- ◯ LFRS distributed throughout building
- ◯ LFRS a mix of distributed throughout and concentrated
- ◯ LFRS elements concentrated
- ◯ Don't know

**(Str-10) In its original (pre-adapted) condition, did the LFRS of the adapted portion have any irregularities (soft stories, floor to floor offsets, etc.)?**

- ◯ Yes, throughout building
- ◯ Yes, in portions of building
- ◯ No
- ◯ Don't know

**(Str-11) In its original (pre-adapted) condition, to what degree were the structural elements of the adapted portion oriented along orthogonal grids?**

- ◯ Only on orthogonal grids
- ◯ Mostly on orthogonal grids
- ◯ Few on orthogonal grids
- ◯ Not at all on orthogonal grids
- ◯ Don't know

**(Str-12) In its original (pre-adapted) condition, were transfer beams utilized in the structure of the adapted portion?**

- ◯ Yes, throughout building
- ◯ Yes, in portions of building
- ◯ No
- ◯ Don't know

**(Str-13) In its original (pre-adapted) condition, were cantilever spans used in the structure of the adapted portion?**

- ◯ Yes, throughout building
- ◯ Yes, in portions of building
- ◯ No
- ◯ Don't know

**(Str-14) Prior to adaptation, how many sections, portions or wings of the adapted portion were separated by structural isolation joints? (If your answer is "don't know" or "not applicable," please enter 999.)**

**(Str-15) For the portion of the building that was adapted, but prior to adaptation, which of the following options best describes the exposure of the roof framing?**

- ◯ Roof framing was generally covered by finish materials that could not be easily removed
- ◯ Roof framing was generally covered by finish materials that could be easily removed (i.e. ceiling panels)
- ◯ Roof framing was exposed in attic spaces
- ◯ Roof framing was generally exposed
- ◯ Roof framing was totally exposed
- ◯ Don't know
- ◯ Other

**(Str-16) For the portion of the building that was adapted, but prior to adaptation, which of the following options best describes the exposure of the floor framing?**

- ◯ Floor framing was generally covered by finish materials that could not be easily removed
- ◯ Floor framing was generally covered by finish materials that could be easily removed (i.e. ceiling panels)
- ◯ Floor framing was exposed in attic spaces
- ◯ Floor framing was generally exposed
- ◯ Floor framing was totally exposed
- ◯ Don't know
- ◯ Other

**(Str-17) For the portion of the building that was adapted, but prior to adaptation, which of the following options best describes the exposure of the lateral force resisting system (LFRS)?**

- ◯ LFRS was generally covered by finish materials that could not be easily removed
- ◯ LFRS was generally covered by finish materials that could be easily removed
- ◯ LFRS was generally exposed
- ◯ LFRS was totally exposed
- ◯ Don't know
- ◯ Other

**(Str-18) For the portion of the building that was adapted, but prior to adaptation, did structural connections allow for disassembly without cutting of members?**

- ◯ Yes, throughout the building
- ◯ Yes, in critical locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-19) For the portion of the building that was adapted, did the original (pre-adaptation) structural design include dedicated plans or instructions for deconstruction or removal of structural members?**

- ◯ Yes, entire building
- ◯ Yes, portions of building
- ◯ No
- ◯ Don't know

**(Str-20) For the portion of the building that was adapted, but prior to adaptation, were mechanical penetrations through the structure large enough to fit additional pipes and/or conduit beyond those required in the original design?**

- ◯ Yes, openings were generally oversized throughout the building
- ◯ Yes, openings were oversized in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-21) For the portion of the building that was adapted, but prior to adaptation, did the floor and/or roof framing have repetitive openings (e.g. web openings) that allowed (or would allow) passage of building services?**

- ◯ Yes, throughout building
- ◯ Yes, in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-22) For the portion of the building that was adapted, but prior to adaptation, did the floor and/or roof system utilize girders, drop panels, or other structural features that were deeper than the floor slab/joists?**

- ◯ Yes, throughout building
- ◯ Yes, in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-23) For the portion of the building that was adapted, but prior to adaptation, did the floor system rely on composite action between framing members and floor slab?**

- ◯ Yes, throughout building
- ◯ Yes, in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(F-1) For the portion of the building that was adapted, but prior to adaptation, which of the following best describes the load carrying capacity of the foundation?**

- ◯ Could have safely carried loads over and above the existing loads
- ◯ Was sufficient for the existing loads, but could not safely support additional loads
- ◯ Was insufficient for the existing loads
- ◯ Don't know
- ◯ Other

**(F-2) For the portion of the building that was adapted, was the original (pre-adaptation) foundation intentionally designed for future additions?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(F-3) For the portion of the building that was adapted, was the original (pre-adaptation) foundation capable of accommodating changes to the location of loads?**

- ◯ **Yes, foundation design allowed for many alternate load locations**
- ◯ **Yes, foundation design allowed alternate load locations in select cases**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Other**

**(F-4) For the portion of the building that was adapted, were barriers for vapor and/or hazardous materials needed and utilized in the original (pre-adaptation) foundation design?**

- ◯ **Not needed**
- ◯ **Needed, provided, and effective**
- ◯ **Needed, but not provided or not effective**
- ◯ **Don't know**
- ◯ **Other**

**(F-5) For the portion of the building that was adapted, did the original (pre-adaptation) foundation design include features (e.g. sensors) for assessing foundation performance and/or condition?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**

If yes, describe:

**(F-6) For the portion of the building that was adapted, did the original (pre-adaptation) foundation require active monitoring and/or interventions (e.g. dewatering)?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**

If yes, describe:

**(F-7) Is the building site in a flood plain?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Other**

**(F-8) For the portion of the building that was adapted, but prior to adaptation, did adjacent building foundations or other underground structures influence or receive load from the original building?**

- Yes
- No
- Don't know
- Other

**(F-9) For the portion of the building that was adapted, but prior to adaptation, what is the likelihood that the water table would impede foundation work?**

- Very likely
- Somewhat likely
- Unlikely
- No possibility
- Don't know
- Other

## General Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(G-1) For the portion of the building that was adapted, but prior to adaptation, was a BIM model available of the building? How detailed was it?**

- Yes, BIM model available and highly detailed
- Yes, BIM model available provides basic detail
- No
- Don't know

**(G-2) For the portion of the building that was adapted, but prior to adaptation, were as-built drawings of the building archived and available for the adaptation project?**

- Yes, highly detailed plans available
- Yes, some plans available
- No
- Don't know

**(G-3) For the portion of the building that was adapted, but prior to adaptation, were pictures or videos taken to document the phases of construction for the building?**

- Yes, many useful pictures (or videos) available
- Yes, some useful pictures available
- Yes, but generally not useful
- No
- Don't know

**(G-4) For the portion of the building that was adapted, but prior to adaptation, were the following documents available and useful for the building?**

| | Yes, high quality and useful documentation available | Yes, moderate quality and moderately useful documents available | Documentation not available or not useful | Don't know | Not applicable |
|---|---|---|---|---|---|
| Geotechnical / Soils Report | ○ | ○ | ○ | ○ | ○ |
| Shop Drawings for structural elements | ○ | ○ | ○ | ○ | ○ |
| Shop drawings for foundation / rebar | ○ | ○ | ○ | ○ | ○ |
| Material test reports for structural materials | ○ | ○ | ○ | ○ | ○ |
| Submittals with finish schedule | ○ | ○ | ○ | ○ | ○ |
| HVAC Operation and Maintenance manuals | ○ | ○ | ○ | ○ | ○ |
| Plumbing Operations and Maintenance manuals | ○ | ○ | ○ | ○ | ○ |
| Electrical Operations and Maintenance manuals | ○ | ○ | ○ | ○ | ○ |
| Construction specifications | ○ | ○ | ○ | ○ | ○ |

**(G-5) For the portion of the building that was adapted, but prior to adaptation, which of the following site topographies best describe the site of the building?**

- ◯ **Primarily flat**
- ◯ **Moderate slopes**
- ◯ **Significant slopes, cliffs, elevation change**
- ◯ **Other**

**(G-6) For the portion of the building that was adapted, but prior to adaptation, to what degree did the upper floors match each other, i.e. were they "stackable"? Examples: bathrooms, hallways, partition walls, and/or utility chases were in same location on each floor; higher floors did not overhang lower floors; higher floors were not smaller than lower floors.**

- ◯ **Yes, floors were almost identical**
- ◯ **Yes, floors mostly matched**
- ◯ **No, floors did not match well**
- ◯ **No, floors were very different**
- ◯ **Don't know**
- ◯ **Not applicable**

# Demolition Questions

# Space Plan Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(SP-1) Main floor: For only the portion of the building that was demolished, draw rectangles on the pre-demolished floor plan such that they do not cross through each other or structural elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles?** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-2 ) Main floor: For only the portion of the building that was demolished, draw rectangles on the pre-demolished floor plan such that they do not cross through each other or structural elements or service elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles?**

Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-3) Main floor: For only the portion of the building that was demolished, draw rectangles on the pre-demolished floor plan such that they do not cross through each other or structural elements or service elements or partition elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles?** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-4) Main floor: For only the portion of the building that was demolished, but prior to demolition, what was the distance from finish floor of the main level to the finish floor of the next level up? Do not consider atriums or other vertical openings for this question. If this was a one-story building, enter dimension from the finish floor to the bottom of roof structure.**

ft

**(SP-5) Typical upper floor: For only the portion of the building that was demolished, draw rectangles on the pre-demolished floor plan such that they do not cross through each other or structural elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles? If there is no "typical" upper floor, then make a note in the comments and answer the question using the floor immediately above the main floor.** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**Notes:**

**(SP-6) Typical upper floor: For only the portion of the building that was demolished, draw rectangles on the pre-demolished floor plan such that they do not cross through each other or structural elements or service elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles?** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-7 ) Typical upper floor: For only the portion of the building that was demolished, draw rectangles on the pre-demolished floor plan such that they do not cross through each other or structural elements or service elements or partition elements. Limit the aspect ratio of the rectangles to approximately 1:10. Draw up to five rectangles and draw them such that they cover as much of the floor area as possible. What are the sizes of the rectangles? Also, what percentage of the floor area is covered by the rectangles?** Click here for more info.

**Units** ft^2

**Box 1: Area**

**Box 2: Area**

**Box 3: Area**

**Box 4: Area**

**Box 5: Area**

**Enter percent of floor covered by polygons. Estimate to nearest 10%. (Enter a number from 0 - 100 with no decimals.)**

**(SP-8 ) Typical upper floor: For only the portion of the building that was demolished, but prior to demolition, what was the typical distance from finish floor to finish floor? Do not consider atriums or other vertical openings for this question. If this is a two-story building, enter dimension from the finish second floor to the bottom of roof structure.**

ft

**Notes:**

**(SP-9) For the portion of the building that was demolished, did the main floor of the building include spaces that extended upward beyond the height of any upper floors, such as atriums or multi-story lobbies? Or, did the pre-demolished main floor include spaces with ceiling heights greater than 20 feet (6.1 meters), such as gymnasiums, convention halls or auditoriums? If yes, estimate percentage of main floor covered by these spaces.**

- Yes
- No
- Don't know
- Not applicable

**If yes, estimate percentage of main floor covered by these spaces. (Enter a number from 0 - 100 with no decimals.)**

**(SP-10) For the portion of the building that was demolished, but prior to demolition, to what degree could the floor plan be characterized as having repetitive/interchangeable spaces? For example, hotels often have highly repetitive/interchangeable floor plans.**

- Highly repetitive/interchangeable
- Mostly repetitive/interchangeable
- Somewhat repetitive/interchangeable
- Not repetitive/interchangeable
- Don't know

**(SP-11) For the portion of the building that was demolished, but prior to demolition, to what degree did the floor plan include non-perpendicular walls? For example, did the plan include angled or curved walls?**

Click here for more info.

- Common throughout the building
- Common in parts of building
- Occurs in few instances
- Never occurs
- Don't know

**(SP-12) For the portion of the building that was demolished, but prior to demolition, to what degree did the interior spaces include non-vertical boundaries?**

Click here for more info.

- ◯ Common throughout the building
- ◯ Common in parts of building
- ◯ Occurs in few instances
- ◯ Never occurs
- ◯ Don't know

**(SP-13) For the portion of the building that was demolished, but prior to demolition, to what degree did the interior spaces of the building include stepped and/or ramped floors (excluding ramps associated with accessibility codes)?**

Click here for more info.

- ◯ Common throughout the building
- ◯ Common in parts of building
- ◯ Occurs in few instances
- ◯ Never occurs
- ◯ Don't know

**(SP-14) For the portion of the building that was demolished, but prior to demolition, were common elements of the interior materials stocked/readily available as replacements? For example, ceiling tiles, floor carpet tile/squares, wall panels.**

- ◯ Yes, many elements stocked/available
- ◯ Yes, some
- ◯ Yes, few
- ◯ No
- ◯ Don't know

**(SP-15) For the portion of the building that was demolished, was the original (pre-demolition) floor/site plan intentionally designed to allow for future expansion?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**If yes, explain here:**

**(SP-16) For the portion of the building that was demolished, could the original (pre-demolition) building footprint be expanded on the existing site?**

- ◯ Yes
- ◯ No
- ◯ Don't know

**What percentage of growth? (Enter a number from 0 - 100 with no decimals.)**

**(SP-17) At the time of demolition, was the to-be-demolished portion's height restricted by adjacent features, buildings, and/or code restrictions?**

- ○ Yes
- ○ No
- ○ Don't know
- ○ Not applicable

**(SP-18) For the portion of the building that was demolished, but prior to demolition, did the building include intentionally designed passive lighting features (e.g. skylights, interior glass panels in walls and doors)?**

- ○ Yes
- ○ No
- ○ Don't know
- ○ Not applicable

**(SP-19) For the portion of the building that was demolished, what percentage of the pre-demolished floor area was within 12 ft (4 m) of an exterior wall? (If it varies by floor, select a typical floor.)**

Click here for more info.

- ○ >90%
- ○ 90% - 50%
- ○ 50% or less
- ○ Don't know

# Envelope Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(E-1) For the portion of the building that was demolished, but prior to demolition, select all materials used in exterior (shell) walls. Check all that apply.**

- ☐ Concrete
- ☐ Concrete stucco
- ☐ Brick
- ☐ CMU block
- ☐ Stone
- ☐ Metal
- ☐ Vinyl siding
- ☐ Glass
- ☐ Wood
- ☐ Unitized curtain wall system
- ☐ Other

**(E-2) For the portion of the building that was demolished, but prior to demolition, select all materials used in the roof shell/envelope. Check all that apply.**

- ☐ Concrete
- ☐ Concrete tile
- ☐ Metal
- ☐ Copper
- ☐ Asphalt shingles
- ☐ Asphalt membrane
- ☐ Slate
- ☐ Wood
- ☐ PVC (vinyl) membrane roofing
- ☐ Green roof
- ☐ Other

**(E-3) Based on the original (pre-demolition) roof materials and configuration of the adapted portion, what was the expected maintenance/replacement interval?**

- ○ **< 10 years**
- ○ **10-20 Years**
- ○ **20+ years**
- ○ **Don't know**
- ○ **Other**

**(E-4) For the portion of the building that was demolished, but prior to demolition, what roof shapes were present? Check all that apply.**

- ☐ Sloped
- ☐ Flat
- ☐ Dome/barrel
- ☐ Gable
- ☐ Hip
- ☐ Other

**(E-5) For the portion of the building that was demolished, but prior to demolition, to what degree were exterior walls protected by roof overhangs?**

- ○ **Completely (approx 100%)**
- ○ **Mostly (over 50%)**
- ○ **Somewhat (less than 50%)**
- ○ **Not at all**
- ○ **Don't know**

**(E-6) For the portion of the building that was demolished, but prior to demolition, to what degree were exterior wall elements repetitive and/or identical?**

- ◯ Primarily repetitive/identical; few unique conditions
- ◯ Somewhat repetitive/identical; some differing conditions
- ◯ Not repetitive/identical; many differing conditions
- ◯ Other

**(E-7) For the portion of the building that was demolished, but prior to demolition, what percentage of exterior wall area was composed of fenestrations? (estimate to the nearest 20%)**

- ◯ >= 80
- ◯ 80
- ◯ 60
- ◯ 40
- ◯ 20
- ◯ < 20%

**(E-8) For the portion of the building that was demolished, but prior to demolition, were the exterior walls primarily vertical?**

- ◯ Exclusively vertical
- ◯ Primarily vertical, few walls are non-vertical
- ◯ Non-vertical walls are present throughout
- ◯ Other

**(E-9) For the portion of the building that was demolished, but prior to demolition, were common elements of the envelope stocked on site (or otherwise readily available) as replacements?**

- ◯ Yes, many elements stocked/available
- ◯ Yes, some
- ◯ Yes, few
- ◯ No
- ◯ Don't know

**(E-10) For the portion of the building that was demolished, but prior to demolition, were exterior walls load bearing?**

- ◯ Exterior walls are load bearing with no exceptions
- ◯ 50% or more of the exterior walls are load bearing
- ◯ Less than half of the exterior walls are load bearing
- ◯ No exterior walls are load-bearing
- ◯ Don’t know
- ◯ Other

**(E-11) For the portion of the building that was demolished, but prior to demolition, to what degree could wall insulation be removed or replaced without cutting/damaging structural elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know
- ◯ Other

**(E-12) For the portion of the building that was demolished, but prior to demolition, to what degree could roof insulation be removed or replaced without cutting/damaging structural elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know
- ◯ Other:

**(E-13) For the portion of the building that was demolished, but prior to demolition, how difficult was it to visually assess the roof envelope's integrity?**

- ◯ Difficult
- ◯ Somewhat difficult
- ◯ Neutral
- ◯ Somewhat easy
- ◯ Very easy
- ◯ Don't know

**Reasons for answer:**

**(E-14) For the portion of the building that was demolished, but prior to demolition, how difficult was it to visually assess the wall envelope's integrity?**

- ◯ Difficult
- ◯ Somewhat difficult
- ◯ Neutral
- ◯ Somewhat easy
- ◯ Very easy
- ◯ Don't know

**Reasons for answer:**

**(E-15) For the portion of the building that was demolished, but prior to demolition, to what degree could fenestrations be removed or replaced without cutting/removing other building elements?**

- ◯ Extensive cutting/removal of other elements required
- ◯ Some cutting/removal of other elements required
- ◯ Very litte cutting/removal of other elements required
- ◯ Don't know
- ◯ Other

**(E-16) For the portion of the building that was demolished, but prior to demolition, to what degree could segments or elements of the exterior walls be removed or replaced without cutting/removing other building elements?**

- ◯ Extensive cutting/removal of other elements required
- ◯ Some cutting/removal of other elements required
- ◯ Very litte cutting/removal of other elements required
- ◯ Don't know
- ◯ Other

**(E-17) For the portion of the building that was demolished, but prior to demolition, did the main floor design include opening(s) in the envelope/façade larger than standard doors?**

- ◯ Yes
- ◯ No
- ◯ Don't know

**(E-18) For the portion of the building that was demolished, but prior to demolition, did the glazing satisfy current sustainability standards (e.g. solar heat gain, thermal transmittance, daylighting, heat transmission, visible transmittance)?**

- ◯ Yes, glazing exceeded relevant standards
- ◯ Yes, glazing met relevant standards
- ◯ No, glazing did not meet standards
- ◯ Don't know

**(E-19) For the portion of the building that was demolished, but prior to demolition, could the envelope/façade be safely removed from inside of the building, or did it require external access to remove it?**

- ◯ Yes, it could be removed from inside of the building
- ◯ No, external access was required to remove the façade
- ◯ Don't know
- ◯ Other:

# Services Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(Ser-1) For the portion of the building that was demolished, how did the pre-demolition energy use compare to a similarly-sized typical newly-constructed building in the same neighborhood?**

- ◯ More efficient than new building
- ◯ Approximately the same as new building
- ◯ Less efficient than new building
- ◯ Don't know

**(Ser-2) For the portion of the building that was demolished, but prior to demolition, did the building feature on-site power generation, i.e., solar panels, wind turbine, peak shaving generator, etc. (excluding emergency power generation)?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-3) If the answer to the previous question was "yes," what was the estimated annual kWH output the system provided?**

**(Ser-4) For the portion of the building that was demolished, but prior to demolition, was emergency power provided via an emergency generator?**

- ◯ Yes, the entire building load can be fed from the emergency generator
- ◯ Yes, life safety, legally required standby, and select optional standby loads can be fed from emergency generator
- ◯ Yes, only life safety and legally required standby loads can be fed from the emergency generator
- ◯ No
- ◯ Don't know

**(Ser-5) What was the size (in kW) of the emergency generator?**

**(Ser-6) For the portion of the building that was demolished, but prior to demolition, did the original (pre-demolition) design include passive heating/cooling features (e.g. intentional thermal mass, natural ventilation)?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-7) For the portion of the building that was demolished, but prior to demolition, was the ductwork characterized as exposed?**

- ◯ Yes, in most/all of building
- ◯ Yes, in some parts of building
- ◯ Not at all
- ◯ Don't know
- ◯ Not applicable

**(Ser-8) For the portion of the building that was demolished, but prior to demolition, was the ductwork insulated?**

- ◯ Yes, internally insulated
- ◯ Yes, externally insulated
- ◯ Not at all
- ◯ Don't know
- ◯ Not applicable

**(Ser-9) For the portion of the building that was demolished, but prior to demolition, was a raised plenum system utilized?**

- ◯ Yes, throughout building
- ◯ Yes, in most of building
- ◯ Yes, in some parts of building
- ◯ Not at all
- ◯ Don’t know

**(Ser-10) For the portion of the building that was demolished, but prior to demolition, was the ceiling characterized by drop panels (ceiling grid and panels)?**

- ◯ Yes, throughout building
- ◯ Yes, in most of building
- ◯ Yes, in some parts of building
- ◯ Not at all
- ◯ Don’t know

**(Ser-11) For the portion of the building that was demolished, but prior to demolition, what percentage of the total floor area was made up of mechanical rooms and spaces (chases and shafts)? (Enter a number 0 - 100 with no decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(Ser-12) For the portion of the building that was demolished, but prior to demolition, were the mechanical and electrical chases able to accommodate additional pipes and conduit?**

- ◯ Yes
- ◯ No
- ◯ Don’t know
- ◯ Not applicable

**(Ser-13) For the portion of the building that was demolished, but prior to demolition, to what degree were plumbing lines accessible without cutting or disassembling other building components?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don’t know

**(Ser-14) For the portion of the building that was demolished, but prior to demolition, could wires be pulled through the conduit (i.e. was rigid conduit used for the majority of the feeders and branch circuits)?**

- ◯ Yes; can be pulled for the majority of feeders and branch circuits
- ◯ No; can be pulled for the majority of feeders, but not branch circuits
- ◯ No; cannot be pulled for feeders nor branch circuit
- ◯ Don't know

**(Ser-15) For the portion of the building that was demolished, but prior to demolition, to what degree were electrical chases accessible without cutting or disassembling other building components?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don’t know

**(Ser-16) For the portion of the building that was demolished, but prior to demolition, was the HVAC system better characterized as avant-garde or tried-and-true?**

- ◯ Avant-garde
- ◯ Neutral
- ◯ Tried-and-true
- ◯ Don’t know

**(Ser-17) For the portion of the building that was demolished, at the time of demolition, what was the estimated age (in years) of the HVAC system?(Enter a number with no commas or decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(Ser-18) For the portion of the building that was demolished, but prior to demolition, was the HVAC system characterized by repetitive/interchangeable elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don’t know

**(Ser-19) For the portion of the building that was demolished, but prior to demolition, did the HVAC systems allow for the addition of multiple zones?**

- ◯ Yes, in most/all of building
- ◯ Yes, in some parts of building
- ◯ No
- ◯ Don't know
- ◯ Not applicable
- ◯ Other

**(Ser-20) For the portion of the building that was demolished, but prior to demolition, was the plumbing system characterized by repetitive/interchangeable elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know

**(Ser-21) For the portion of the building that was demolished, but prior to demolition, was the lighting system characterized by repetitive/interchangeable elements?**

- ◯ Completely
- ◯ Mostly
- ◯ Somewhat
- ◯ Not at all
- ◯ Don't know

**(Ser-22) For the portion of the building that was demolished, but prior to demolition, what was the primary lighting source for most spaces?**

- ◯ Incandescent
- ◯ T-12 fluorescent
- ◯ Other fluorescent
- ◯ HID
- ◯ LED
- ◯ Don't know
- ◯ Other

**(Ser-23) For the portion of the building that was demolished, but prior to demolition, was the lighting controls system better characterized as avant-garde, tried-and-true, or archaic/non-existant?**

- ◯ Avant-garde
- ◯ Neutral
- ◯ Tried-and-true
- ◯ Archaic/non-existant
- ◯ Don't know

**(Ser-24) For the portion of the building that was demolished, but prior to demolition, were common elements of the mechanical/electrical/plumbing system stocked on site as replacements?**

- ◯ Very many
- ◯ Many
- ◯ Some
- ◯ None
- ◯ Don't know

**(Ser-25) For the portion of the building that was demolished, but prior to demolition, was the HVAC system better characterized as centralized or distributed?**

- ◯ **Centralized**
- ◯ **Somewhat centralized**
- ◯ **Neutral**
- ◯ **Somewhat distributed**
- ◯ **Distributed**
- ◯ **Don't know**

**(Ser-26) For the portion of the building that was demolished, but prior to demolition, was the water supply metering divisible by different building areas/zones?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-27) For the portion of the building that was demolished, but prior to demolition, was the electrical supply metering divisible by different building areas/zones?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-28) For the portion of the building that was demolished, but prior to demolition, was the gas supply metering divisible by different building areas/zones?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(Ser-29) For the portion of the building that was demolished, at the time of demolition, what was the estimated age (in years) of the electrical distribution system? (Enter a number with no decimals. If your answer is "don't know" or "not applicable," please enter 999.)**

**(Ser-30) For the portion of the building that was demolished, but prior to demolition, where were the vertical HVAC/plumbing chases located?**

- ☐ Along exterior walls
- ☐ Within non-bearing walls
- ☐ Adjacent to structural elements
- ☐ Centrally located core
- ☐ Distibuted throughout
- ☐ None of the above
- ☐ Don't know

**(Ser-31) For the portion of the building that was demolished, but prior to demolition, did the building have reserve electrical capacity beyond its current needs?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-32) For the portion of the building that was demolished, but prior to demolition, did the building have reserve chilled and/or heating water supply/return capacity beyond its current needs?**

- ◯ Yes
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Ser-33) For the portion of the building that was demolished, did the building heating system use gas, electricity, or steam/hot water for the majority of the heating loads?**

- ◯ Gas
- ◯ Electricity
- ◯ Steam/hot water
- ◯ Don't know
- ◯ Not applicable
- ◯ Other

## Structural Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(Str-1) For the portion of the building that was demolished, but prior to demolition, what type of system(s) was used to carry gravity loads? Check all that apply.**

- ☐ Concrete - cast-in-place
- ☐ Concrete - precast
- ☐ Concrete - prestressed
- ☐ Steel - cold formed
- ☐ Steel - rolled shapes
- ☐ Steel - trusses / joists
- ☐ Wood - post and beam
- ☐ Wood - stud wall
- ☐ Wood - prefabricated elements
- ☐ Brick/masonry
- ☐ Other

**(Str-2) For the portion of the building that was demolished, but prior to demolition, what type of system(s) was used to carry lateral loads? Check all that apply.**

- ☐ Concrete - moment frames
- ☐ Concrete - shear walls
- ☐ Steel - moment frames
- ☐ Steel - braced frames
- ☐ Wood - shear walls
- ☐ Wood - other
- ☐ Brick/masonry - shear walls
- ☐ Other

**(Str-3) In the original (pre-demolished) design, was the design live load (LL) consistent throughout the portion of the building that was demolished?**

- ○ **Yes**
- ○ **No**
- ○ **Don't know**

**(Str-4) For the portion of the building that was demolished, what was the design live load (LL) used in the original (pre-demolition) design? (If the live load varies, enter the value that covers the greatest portion of the building portion. If the design live load is not known, input the live load associated with the current occupancy. If your answer is "don't know" or "not applicable," please enter 999.)**

psf

**(Str-5) In its original (pre-demolished) design, was the structure of the demolished portion intentionally designed for future additions?**

- ○ **Yes**
- ○ **No**
- ○ **Don't know**
- ○ **Other**

Describe

**(Str-6) In its original (pre-demolished) condition, to what degree did the lateral force resisting system (LFRS) of the demolished portion satisfy current code requirements?**

- ○ **Generally exceeded current code requirements**
- ○ **Generally met current code requirements**
- ○ **Violated some requirements of current code**
- ○ **Violated numerous requirements of current code**
- ○ **Don't know**

**(Str-7) In its original (pre-demolished) condition, to what degree did the gravity load resisting system (GFRS) of the demolished portion satisfy current code requirements?**

- ◯ Generally exceeded current code requirements
- ◯ Generally met current code requirements
- ◯ Violated some requirements of current code
- ◯ Violated numerous requirements of current code
- ◯ Don't know

**(Str-8) In its original (pre-demolished) condition, did the structure of the demolished portion feature any specialized structural elements?**

- ◯ Yes, throughout the building
- ◯ Yes, in isolated portions of building
- ◯ No
- ◯ Don't know

**(Str-9) In its original (pre-demolished) condition, was the lateral force resisting system (LFRS) of the demolished portion better characterized as distributed through many elements or concentrated in a few elements?**

- ◯ LFRS distributed throughout building
- ◯ LFRS a mix of distributed throughout and concentrated
- ◯ LFRS elements concentrated
- ◯ Don't know

**(Str-10) In its original (pre-demolished) condition, did the LFRS of the demolished portion have any irregularities (soft stories, floor to floor offsets, etc.)?**

- ◯ Yes, throughout building
- ◯ Yes, in portions of building
- ◯ No
- ◯ Don't know

**(Str-11) In its original (pre-demolished) condition, to what degree were the structural elements of the demolished portion oriented along orthogonal grids?**

- ◯ Only on orthogonal grids
- ◯ Mostly on orthogonal grids
- ◯ Few on orthogonal grids
- ◯ Not at all on orthogonal grids
- ◯ Don't know

**(Str-12) In its original (pre-demolished) condition, were transfer beams utilized in the structure of the demolished portion?**

- ◯ Yes, throughout building
- ◯ Yes, in portions of building
- ◯ No
- ◯ Don't know

**(Str-13) In its original (pre-demolished) condition, were cantilever spans used in the structure of the demolished portion?**

- Yes, throughout building
- Yes, in portions of building
- No
- Don't know

**(Str-14) Prior to demolition, how many sections, portions or wings of the demolished portion were separated by structural isolation joints? (If your answer is "don't know" or "not applicable," please enter 999.)**

**(Str-15) For the portion of the building that was demolished, but prior to demolition, which of the following options best describes the exposure of the roof framing?**

- Roof framing was generally covered by finish materials that could not be easily removed
- Roof framing was generally covered by finish materials that could be easily removed (i.e. ceiling panels)
- Roof framing was exposed in attic spaces
- Roof framing was generally exposed
- Roof framing was totally exposed
- Don't know
- Other

**(Str-16) For the portion of the building that was demolished, but prior to demolition, which of the following options best describes the exposure of the floor framing?**

- Floor framing was generally covered by finish materials that could not be easily removed
- Floor framing was generally covered by finish materials that could be easily removed (i.e. ceiling panels)
- Floor framing was exposed in attic spaces
- Floor framing was generally exposed
- Floor framing was totally exposed
- Don't know
- Other

**(Str-17) For the portion of the building that was demolished, but prior to demolition, which of the following options best describes the exposure of the lateral force resisting system (LFRS)?**

- LFRS was generally covered by finish materials that could not be easily removed
- LFRS was generally covered by finish materials that could be easily removed
- LFRS was generally exposed
- LFRS was totally exposed
- Don't know
- Other

**(Str-18) For the portion of the building that was demolished, but prior to demolition, did structural connections allow for disassembly without cutting of members?**

- Yes, throughout the building
- Yes, in critical locations
- No
- Don't know
- Not applicable

**(Str-19) For the portion of the building that was demolished, did the original (pre-demolition) structural design include dedicated plans or instructions for deconstruction or removal of structural members?**

- ◯ Yes, entire building
- ◯ Yes, portions of building
- ◯ No
- ◯ Don't know

**(Str-20) For the portion of the building that was demolished, but prior to demolition, were mechanical penetrations through the structure large enough to fit additional pipes and/or conduit beyond those required in the original design?**

- ◯ Yes, openings were generally oversized throughout the building
- ◯ Yes, openings were oversized in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-21) For the portion of the building that was demolished, but prior to demolition, did the floor and/or roof framing have repetitive openings (e.g. web openings) that allowed (or would allow) passage of building services?**

- ◯ Yes, throughout building
- ◯ Yes, in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-22) For the portion of the building that was demolished, but prior to demolition, did the floor and/or roof system utilize girders, drop panels, or other structural features that were deeper than the floor slab/joists?**

- ◯ Yes, throughout building
- ◯ Yes, in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(Str-23) For the portion of the building that was demolished, but prior to demolition, did the floor system rely on composite action between framing members and floor slab?**

- ◯ Yes, throughout building
- ◯ Yes, in some locations
- ◯ No
- ◯ Don't know
- ◯ Not applicable

**(F-1) For the portion of the building that was demolished, but prior to demolition, which of the following best describes the load carrying capacity of the foundation?**

- ◯ Could have safely carried loads over and above the existing loads
- ◯ Was sufficient for the existing loads, but could not safely support additional loads
- ◯ Was insufficient for the existing loads
- ◯ Don't know
- ◯ Other

**(F-2) For the portion of the building that was demolished, was the original (pre-demolition) foundation intentionally designed for future additions?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Not applicable**

**(F-3) For the portion of the building that was demolished, was the original (pre-demolition) foundation capable of accommodating changes to the location of loads?**

- ◯ **Yes, foundation design allowed for many alternate load locations**
- ◯ **Yes, foundation design allowed alternate load locations in select cases**
- ◯ **No**
- ◯ **Don't know**
- ◯ **Other**

**(F-4) For the portion of the building that was demolished, were barriers for vapor and/or hazardous materials needed and utilized in the original (pre-demolition) foundation design?**

- ◯ **Not needed**
- ◯ **Needed, provided, and effective**
- ◯ **Needed, but not provided or not effective**
- ◯ **Don't know**
- ◯ **Other**

**(F-5) For the portion of the building that was demolished, did the original (pre-demolition) foundation design include features (e.g. sensors) for assessing foundation performance and/or condition?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**

If yes, describe:

**(F-6) For the portion of the building that was demolished, did the original (pre-demolition) foundation require active monitoring and/or interventions (e.g. dewatering)?**

- ◯ **Yes**
- ◯ **No**
- ◯ **Don't know**

If yes, describe:

**(F-7) Is the building site in a flood plain?**
- Yes
- No
- Don't know
- Other

**(F-8) For the portion of the building that was demolished, but prior to demolition, did adjacent building foundations or other underground structures influence or receive load from the original building?**
- Yes
- No
- Don't know
- Other

**(F-9) For the portion of the building that was demolished, but prior to demolition, what is the likelihood that the water table would impede foundation work?**
- Very likely
- Somewhat likely
- Unlikely
- No possibility
- Don’t know
- Other

## General Questions

**General note: Unless noted otherwise, answer all questions about the condition of the building prior to adaptation/demolition, even if the building element/system in question was not adapted or demolished.**

**(G-1) For the portion of the building that was demolished, but prior to demolition, was a BIM model available of the building? How detailed was it?**
- Yes, BIM model available and highly detailed
- Yes, BIM model available provides basic detail
- No
- Don't know

**(G-2) For the portion of the building that was demolished, but prior to demolition, were as-built drawings of the building archived and available for the demolition project?**
- Yes, highly detailed plans available
- Yes, some plans available
- No
- Don’t know

**(G-3) For the portion of the building that was demolished, but prior to demolition, were pictures or videos taken to document the phases of construction for the building?**

- ○ **Yes, many useful pictures (or videos) available**
- ○ **Yes, some useful pictures available**
- ○ **Yes, but generally not useful**
- ○ **No**
- ○ **Don't know**

**(G-4) For the portion of the building that was demolished, but prior to demolition, were the following documents available and useful for the building?**

| | Yes, high quality and useful documentation available | Yes, moderate quality and moderately useful documents available | Documentation not available or not useful | Don't know | Not applicable |
|---|---|---|---|---|---|
| Geotechnical / Soils Report | ○ | ○ | ○ | ○ | ○ |
| Shop Drawings for structural elements | ○ | ○ | ○ | ○ | ○ |
| Shop drawings for foundation / rebar | ○ | ○ | ○ | ○ | ○ |
| Material test reports for structural materials | ○ | ○ | ○ | ○ | ○ |
| Submittals with finish schedule | ○ | ○ | ○ | ○ | ○ |
| HVAC Operation and Maintenance manuals | ○ | ○ | ○ | ○ | ○ |
| Plumbing Operations and Maintenance manuals | ○ | ○ | ○ | ○ | ○ |

| | | | | | |
|---|---|---|---|---|---|
| Electrical Operations and Maintenance manuals | ○ | ○ | ○ | ○ | ○ |
| Construction specifications | ○ | ○ | ○ | ○ | ○ |

**(G-5) For the portion of the building that was demolished, but prior to demolition, which of the following site topographies best describe the site of the building?**

- ○ **Primarily flat**
- ○ **Moderate slopes**
- ○ **Significant slopes, cliffs, elevation change**
- ○ **Other**

**(G-6) For the portion of the building that was demolished, but prior to demolition, to what degree did the pre-demolished upper floors match each other, i.e. were they "stackable"? Examples: bathrooms, hallways, partition walls, and/or utility chases were in same location on each floor; higher floors did not overhang lower floors; higher floors were not smaller than lower floors.**

- ○ **Yes, floors were almost identical**
- ○ **Yes, floors mostly matched**
- ○ **No, floors did not match well**
- ○ **No, floors were very different**
- ○ **Don't know**
- ○ **Not applicable**