

San Francisco's New Public Trash Receptacles



Civic Design Review
September 21, 2020



Introduction



Institute for
Creative
Integration

This presentation deck contains imagery and information for the three design candidates for San Francisco's New Public Trash Receptacle. The design team from the Institute for Creative Integration (ICI) is excited to share our progress to date with the SF Civic Design Review. We look forward to continuing the journey, and in the near future delivering an outstanding trash receptacle design for the City of San Francisco.

Existing Trash Receptacle

The existing San Francisco Trash Receptacles have been in service for many years. Although the design has good intentions, its performance falls short in everyday use.

The recycling exchange is meant to provide an easy way to segregate the cans and bottles from the rest of the waste. However, people see it as the place where all recycling goes, including other non-returnable plastic items and recyclable paper products. This can lead to people rummaging through the recycling exchange and unwanted contents ending up on the ground in the surrounding area.

The openings around the receptacle for disposing of trash are easily accessible to people looking for something of value. This can also lead to items being pulled out of the container and ending up on the ground.

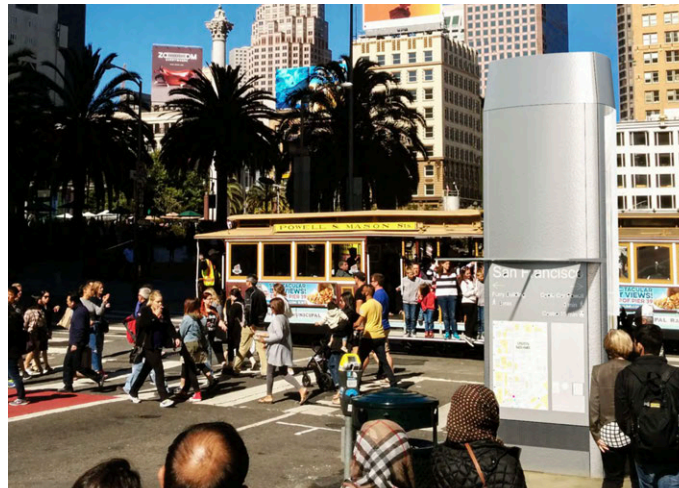
Finally in some cases, the locking mechanism that holds the door closed becomes damaged, or can be broken giving access to the waste container inside. Then, unfortunately everything ends up a mess.



The changing landscape of the City

Recent City of San Francisco projects have moved to embrace a more modern and straightforward design approach. With clean lines, softer forms, and precise details, the new designs express honesty in form and function while incorporating a bit of a soft human touch. The use of stainless steel and aluminum materials reflecting in gray and silver tones, help to unify designs that have vastly different functionality.

The design team for the new public trash receptacles has taken note and strived to develop designs that will work in harmony and provide accents to the evolving design approach, and the changing landscape of the City.



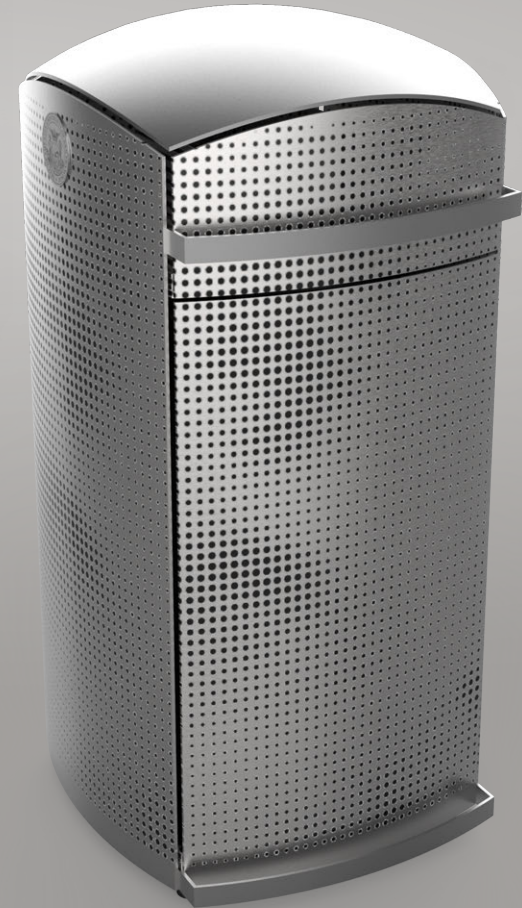
The Line Up



Salt & Pepper



Slim Silhouette



Soft Square

Salt & Pepper

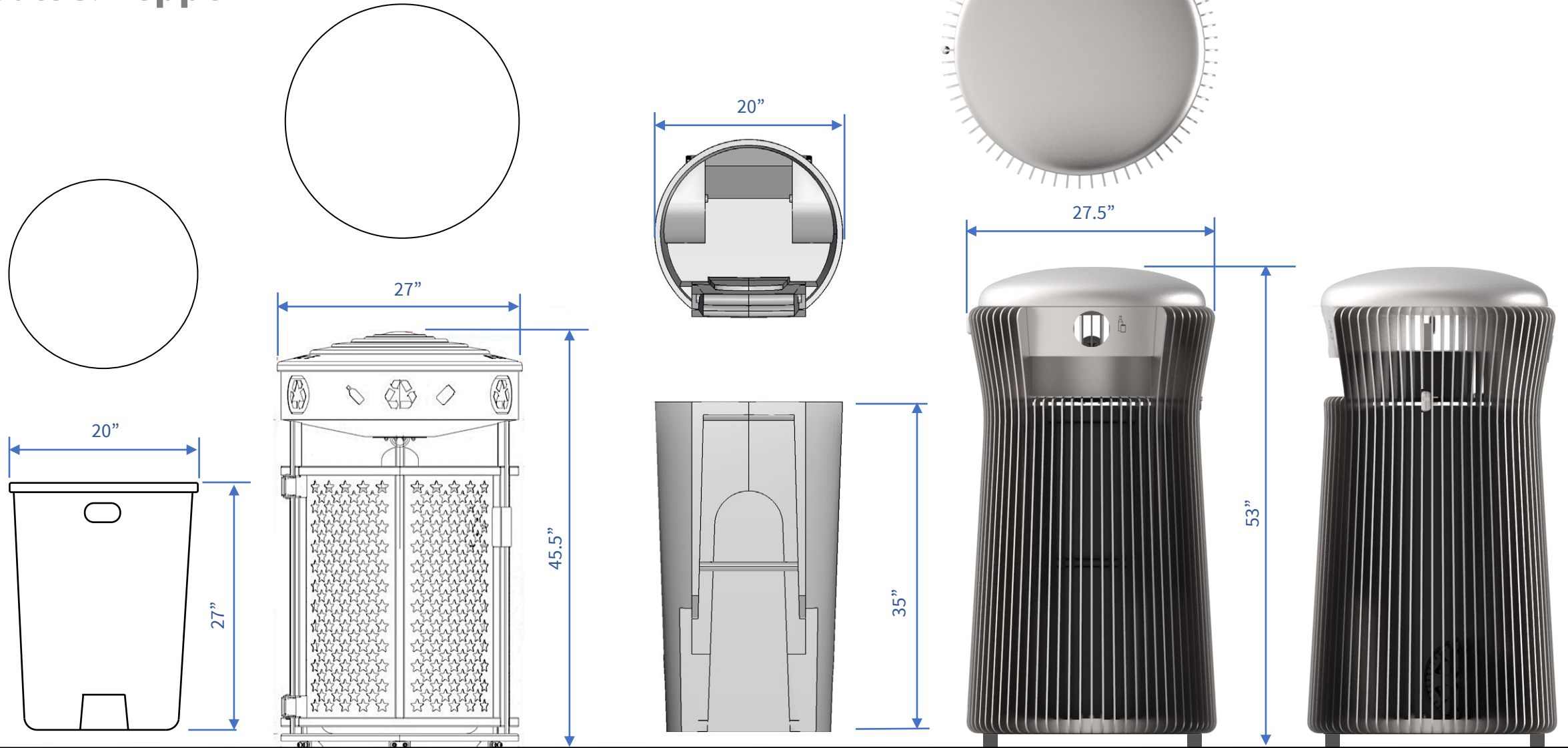


Salt & Pepper

Salt and pepper's unique profile stands out from afar, easily distinguishable for someone looking to discard items. The silhouette denotes two separate refuse areas, with cans and bottles for redemption exchange above and regular trash below. Steel fins welded to ribs give Salt and Pepper a durable frame, as well as providing visibility for security and deterrence to graffiti. A shroud minimizes the size of items capable of being discarded, discouraging oversized, obstructive items. The bold new form also communicates the city's efforts to usher in a new, more cleanly era on the streets of San Francisco.



Salt & Pepper



Renaissance liner

Current Renaissance Receptacle

Salt & Pepper- liner/toter

Salt & Pepper - Top & Front

Salt & Pepper- Side

Salt & Pepper



Salt & Pepper

Cans and bottles rest on shelf

Lock recessed between fins

Cylindrical shaped custom toter

Receptacle doors swings open on hinges

Interior fasteners create tamper resistant assembly

Sensor mounts to shroud, over toter

Shroud limits size of items being discarded



Salt & Pepper

Salt and Pepper design allows for multiple top solutions. “Stacked” employs a simple shroud, limiting size of items thrown in garbage. “Side by side “ incorporates a secure “chute” design (similar to some public mailboxes) that more thoroughly discourages harvesting of discarded items.



Stacked



Side by side

Salt & Pepper

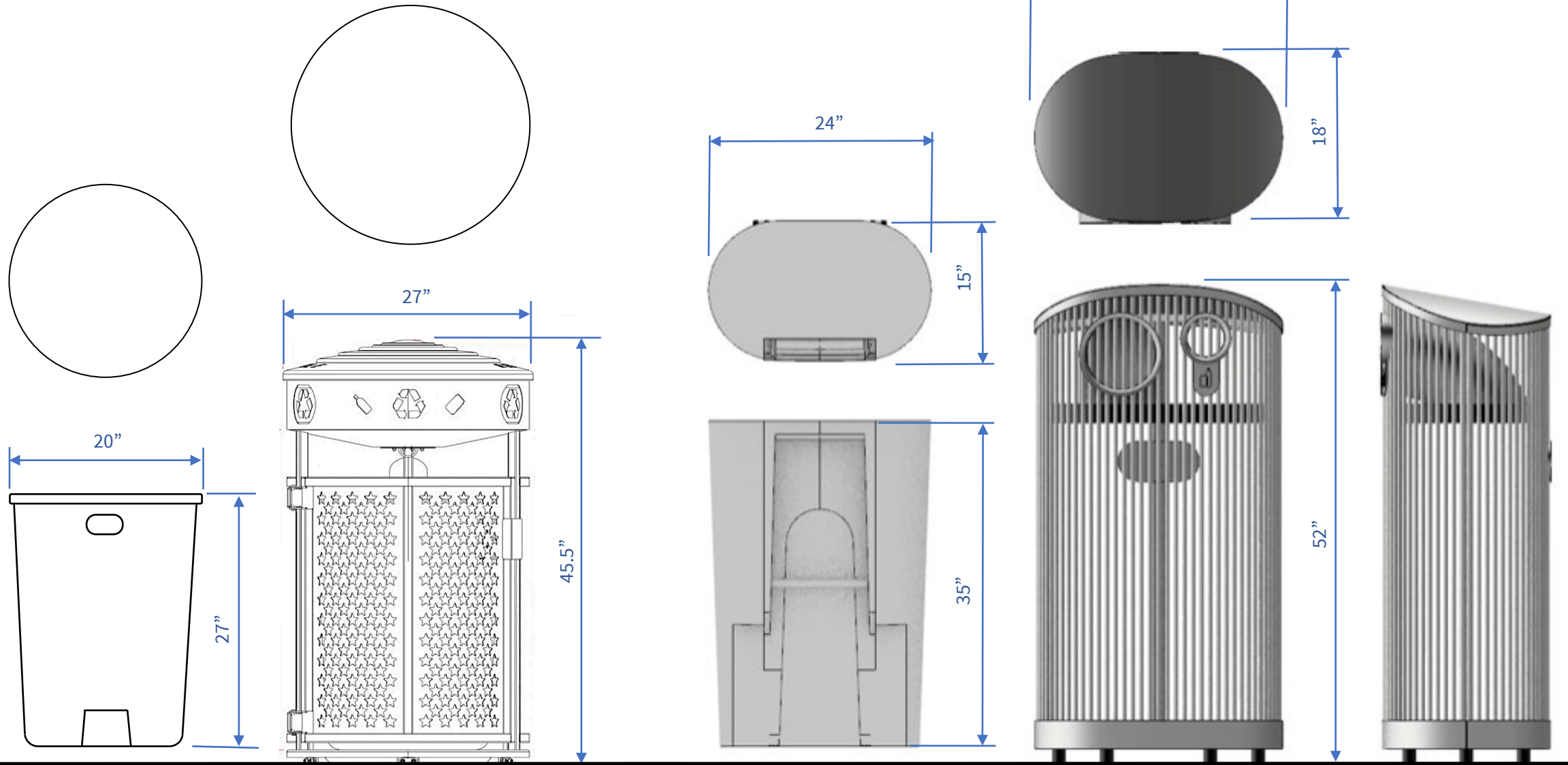


Slim Silhouette

Slim Silhouette's slim side profile allows more space on the sidewalks for people to move about freely while clearly presenting discard options on the front face, trash or recycle exchange. This single sided access and the chute shaped trash opening makes rummaging more difficult, so more trash stays inside. The trash and recycle openings have a generously rounded bezel inviting people in. The stainless steel pipe construction ensures longer lasting beauty with easier cleanability and less flat surface for graffiti. Slim Silhouette keeps the streets clean with personality!



Slim Silhouette



Renaissance liner

Current Renaissance Receptacle

Slim Silhouette- liner/toter

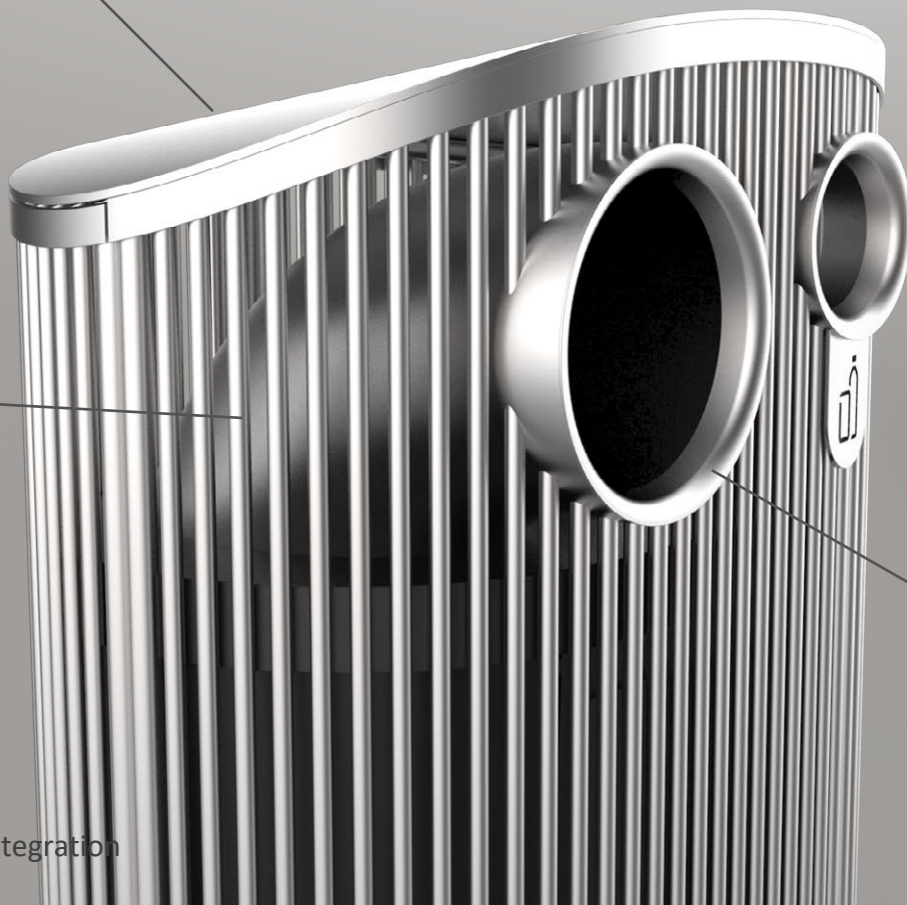
Slim Silhouette - Top & Front

Slim Silhouette - Side

Slim Silhouette

Curved slanted top draws eye around while discouraging item placement

Funnel and recycle exchange visible through pipes



Spun bezels with rounded edge invite people to discard their trash

Slim Silhouette

Cans / bottles area.
Slid off into the toter
when serviced

Sensor located
below shelf

Pill shaped
custom toter



City seal and
key lock

1/2" diameter pipe
construction

Slim Silhouette

As we move toward engineering and product realization, we have envisioned two options for construction, Full Pipes and Partial Pipes. Depending on the capabilities of the selected manufacturer and unit cost one option may offer advantages over the other.



Full Pipes



Partial Pipes

Slim Silhouette



Soft Square

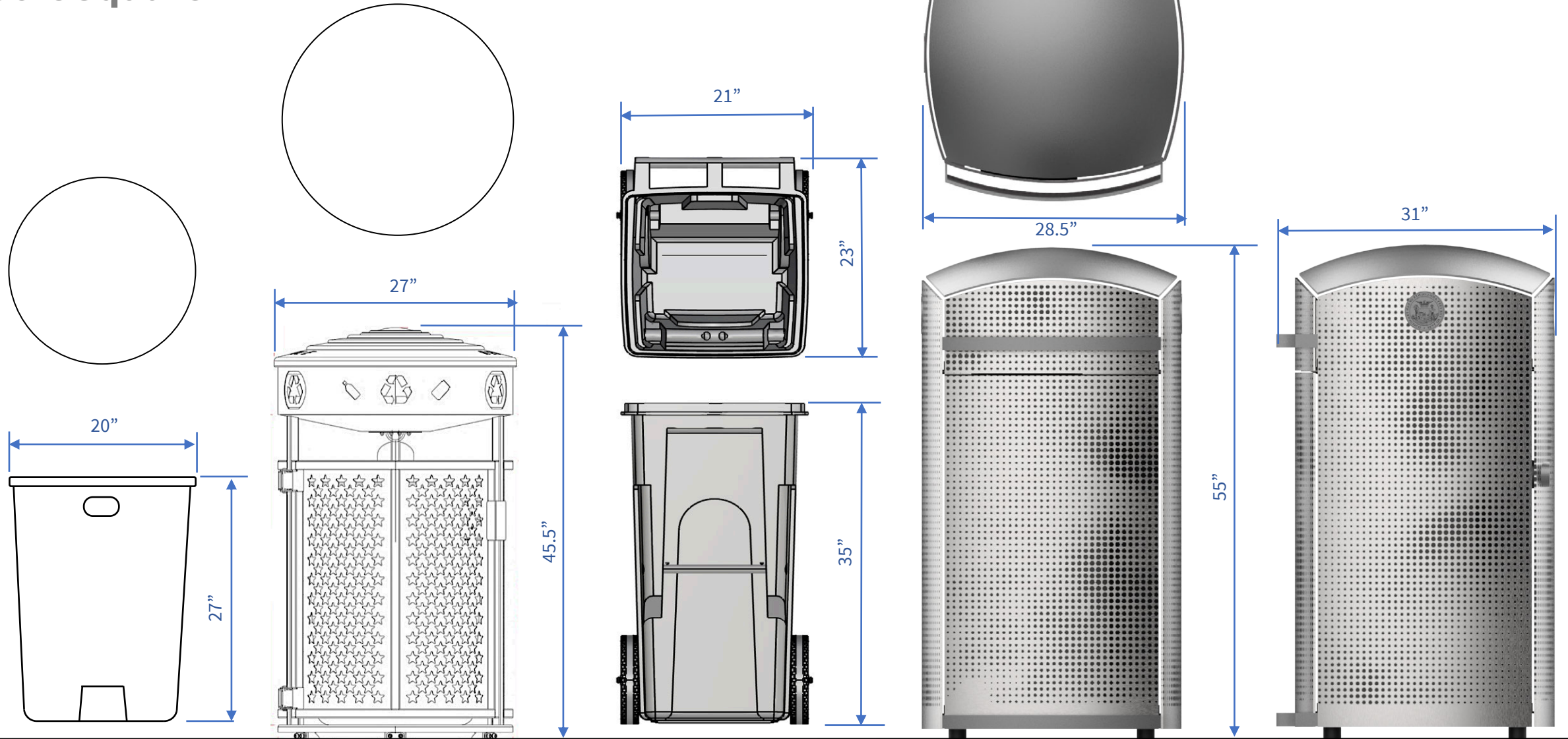


Soft Square

Soft Square keeps an identifiable trash can silhouette while bringing the aesthetic into the 21st century. Designed as a kit of parts, Soft Square is comprised of four curved panels, an adjustable base, and a domed top. Intentional gap separations between the panels allow for an elegant integration of components including the handle, foot pedal and hinge. Openings for the trash and bottles/cans are behind the front hopper door giving the design a clean appearance. The hopper design also makes it extremely difficult for over filling and rummaging. The stainless steel construction can be customized through different perforation patterns.



Soft Square



Renaissance liner

Current Renaissance Receptacle

Soft Square- liner/toter

Soft Square- Top & Front

Soft Square- Side

Soft Square



City seal

Intentional panel gap integrates components like handle and foot pedal

Opening on back side for extracting cans and bottles

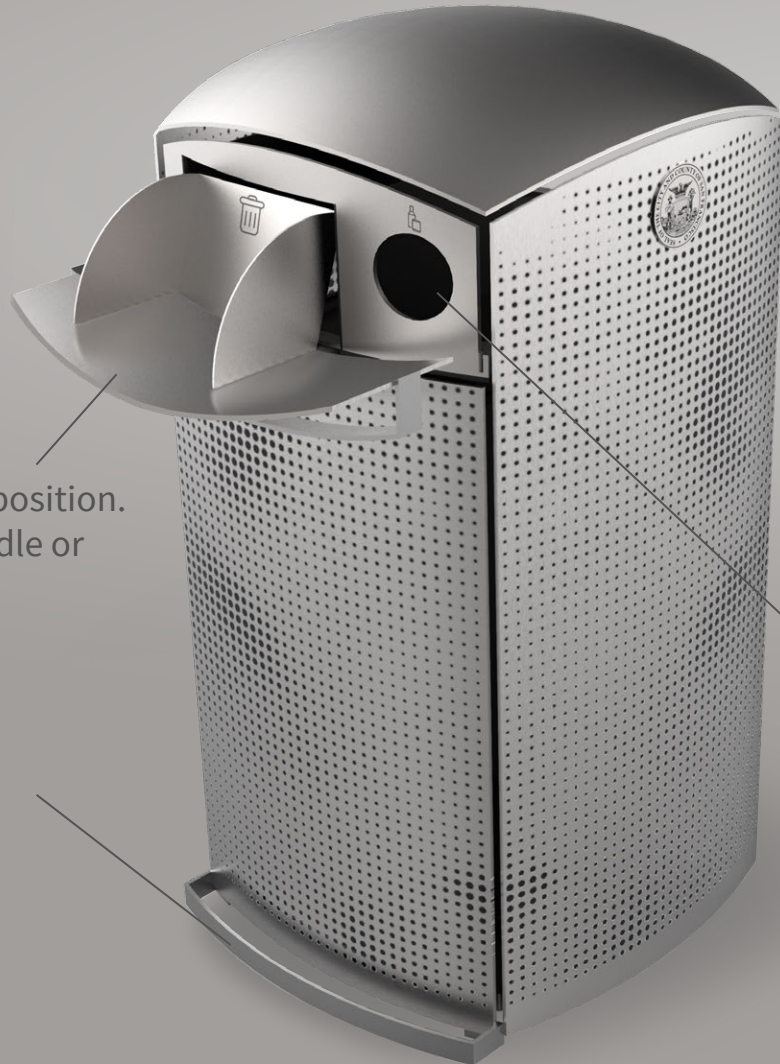
Lock

Foot pedal serves as primary opening touchpoint with handle as backup

4 identical side panels with minor modifications for lock, can/bottle openings, and the city emblem



Soft Square



Hopper in open position.
operated by handle or
foot pedal

Foot pedal

Opening for bottles and
cans revealed when the
hopper door is open



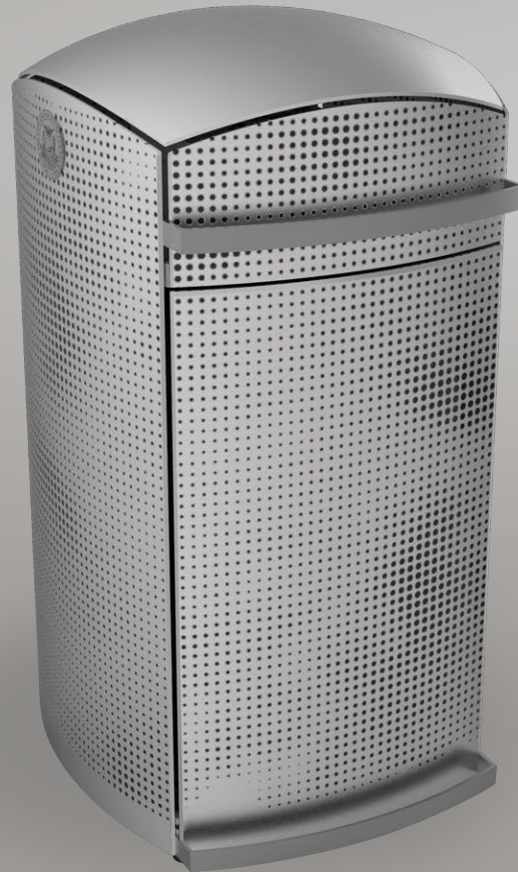
Collection area for
cans and bottles

Sensor mounted
underneath shelf

Existing 32
gallon toter

Soft Square

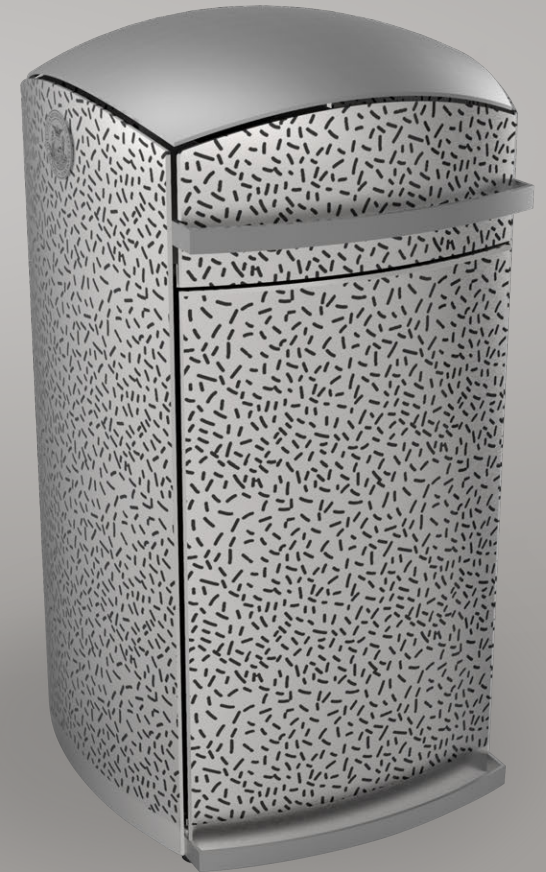
Soft Square's side panels could potentially be fabricated with a range of perforated patterns. This would give the opportunity for trash receptacles to be tailored to different neighborhoods in the city, or for different locations. For example, a park may employ a more natural looking, free form type of pattern, while the business district's pattern might be more angular or geometrical.



Fog

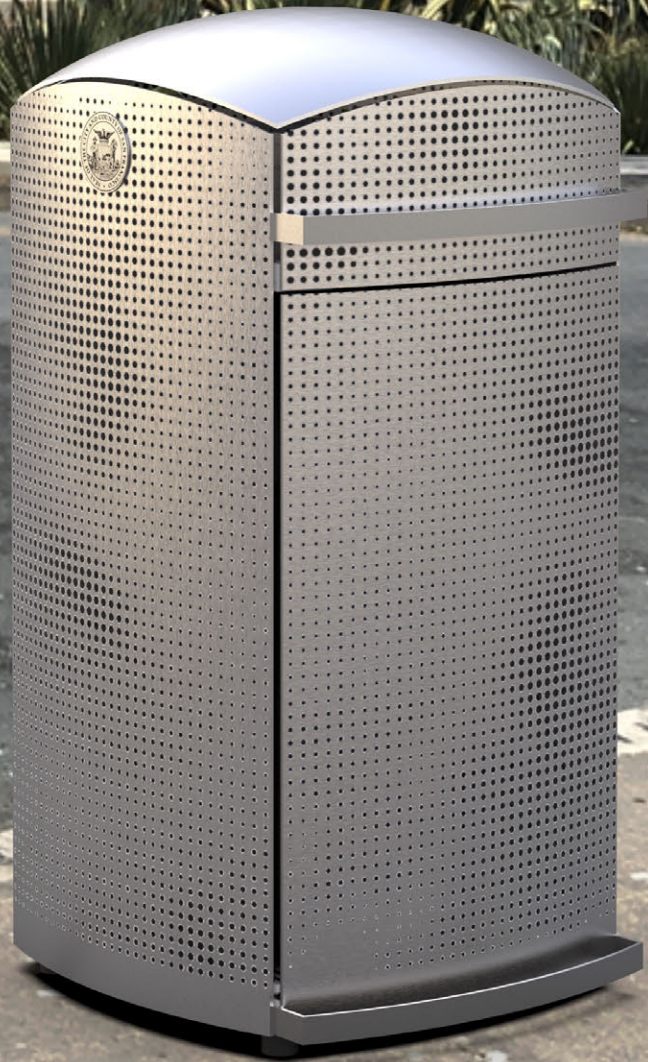


Fog GGB



Memphis

Soft Square



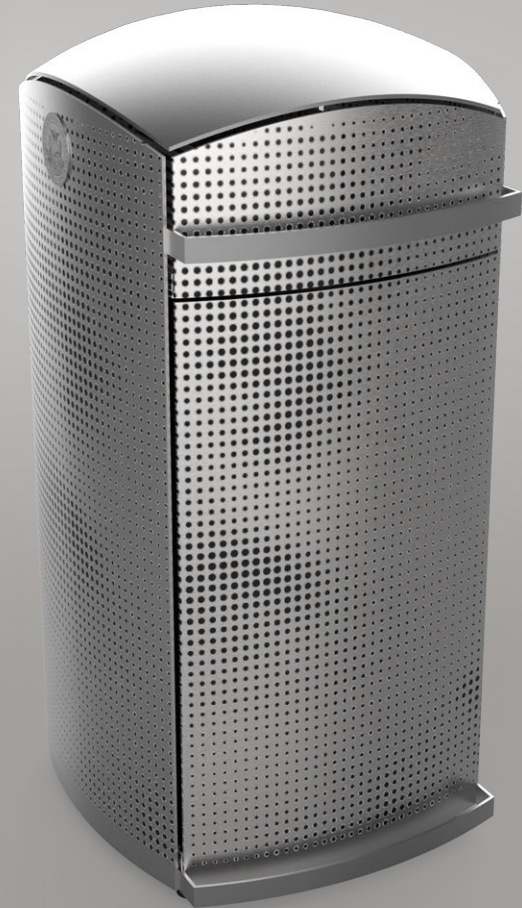
The Line Up



Salt & Pepper



Slim Silhouette



Soft Square



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Thank You !

... and enjoy the rest of your day