

This document is a draft Scope of Services for a future competitive contract Miami Dade County anticipates entering into. Scope of Services is subject to change without notice. This is not an advertisement.

SECTION 3

SCOPE OF WORK/TECHNICAL SPECIFICATIONS

3.1 SCOPE OF WORK

The Awarded Bidder shall provide a fabrication necessary to manufacture a fully functional three (3) stall restroom and shower combination unit built within a 20-foot-high cube shipping container. The completed unit must be durable, hygienic, easy to maintain, and designed for high traffic use to serve as a temporary facility at an operational Fire station for the Miami Dade Fire Rescue Department. These units will serve as stand-by units at various Fire stations during construction and renovation projects.

3.2 MINIMUM REQUIREMENTS

The manufacture of a 3-stall restroom and shower combination unit in a 20' high cube shipping container must meet or exceed the following minimum specifications:

1. Container Structure & Exterior Requirements
 - i. Utilizing a new or one way 20' high cube ISO shipping container in good structural condition and free from blemishes.
 - ii. Install three (3) exterior commercial grade entry doors, one for each private stall.
2. Interior Layout and Construction
 - i. The stock container double swing doors shall remain operational and will be used to access a dedicated mechanical room.
 - ii. Mechanical room shall contain:
 1. LP gas tankless water heater with appropriate venting.
 2. Electrical load center (Breaker Panel)
 3. Required plumbing lines and fitting for city water supply and back water discharge.
 - iii. Construct three (3) independent restroom/shower stalls, divided by insulated partitions.
 - iv. Install 2" aluminum insulated paneling for all walls and partitions.
 - v. Install 3" aluminum insulated paneling for ceiling insulation and finishing.
 - vi. Apply a full epoxy-coated nonslip floor throughout the unit, with cove transitions where feasible. Color shall be gray with flake.
 - vii. Install one (1) floor drain in each stall for complete washdown capability.
3. Fixtures & Equipment (Per Stall)
 - i. Mounted commercial toilet with dedicated macerator pump system.
SANIFLO MACIRATOR or equivalent.
<https://saniflostore.com/collections/full-bathroom/products/saniflo-sanibest-pro-pump-white-round-toilet-kit>
 - ii. Commercial ceramic sink with faucet and drain assembly.
 - iii. Wall mounted mirror above the sink
 - iv. 36" corner shower unit with mixing valve and shower door system.
 - v. Wall mounted towel rack
 - vi. Wall mounted toilet paper holder
 - vii. One (1) 65 CFM ventilation fan per stall. viii. Roof-mounted air-conditioning unit per stall.
4. Electrical System:

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- i. Electrical breaker panel/load center housed within the mechanical room at the stock container double-door end.
 - ii. Exterior shore power connection. Type of connection depends on the design load.
 - iii. Circuits for interior lighting, exterior lighting, ventilation fans, AC units, tankless water heater, and outlets.
 - iv. GFCI outlets:
 - 1. One (1) per sink
 - 2. One (1) per macerator pump
 - 3. One (1) in the mechanical room
 - 4. One (1) exterior by the shore power connection
 - v. Lighting:
 - 1. One (1) interior LED light strip per stall
 - 2. One (1) exterior LED light by each stall door
 - 3. One (1) interior LED light strip in the mechanical room
5. Plumbing
- i. Provide exterior ¾" domestic water fitting for unit water supply.
 - ii. Provide exterior LP gas connection point for the tankless water heater.
 - iii. Provide cold and hot water supply lines to sinks, showers. Cold water only to the Macerator toilets.
 - iv. Provide gray water drains from the sink and shower to the designated inlets on the macerator pump in each stall.
 - vi. Route macerated 1" discharge to a combined or split outlet system designed for city sewer connection or external holding tank.
 - vii. Provide macerator vent stack in accordance with manufacture specifications.
6. Chassis Requirements
- i. Vendor shall supply or fabricate a purpose-built trailer chassis designed specifically to support the loaded 20' container to include:
 - 1. Fully welded steel frame with container locking points
 - 2. Tow bar with appropriate hitch
 - 3. Provide fold out non-slip steps for each stall entrance with handrail.
 - 4. Four (4) stabilizer jacks for unit leveling.
 - 5. DOT-compliant lighting

Sample of acceptable design of manufactured fully functional 3-stall restroom and shower combination unit in a 20' high cube shipping container are provided in Attachment A.

NOTE:

Project Conditions – Substitutions to material and design criteria must be approved by MDFR personnel.

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ATTACHMENT A

SAMPLE OF ACCEPTABLE MANUFACTURED FULLY FUNCTIONAL 3-STALL RESTROOM AND SHOWER COMBINATION UNIT IN A 20' HIGH CUBE SHIPPING CONTAINER

The layout below is only conceptual and not true to the final design.

