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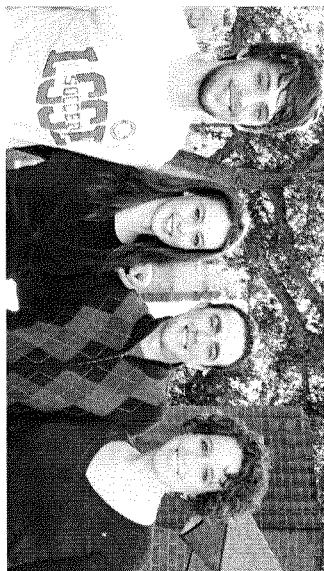
## **ADA Standards We Have Met**

- Reach to the faucet
- Height of countertop (bottom of sink to top of countertop)
- Distance from edge of countertop to pipes
- Insulated pipes
- Faucet is ADA compliant

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## **Team Procrastinasties Contact Information**

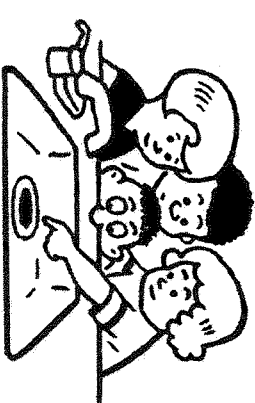
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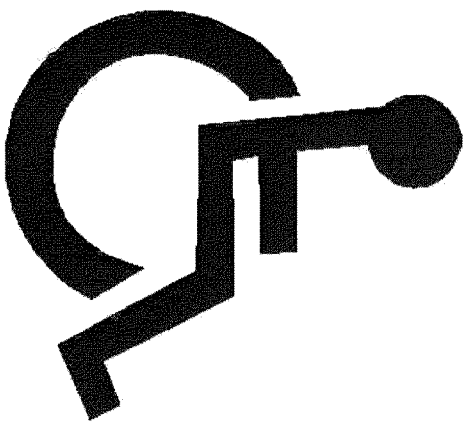
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## **Team Procrastinasties presents**

*A wheelchair-  
accessible sink for  
a special needs  
classroom*



*We mean business...tomorrow.*

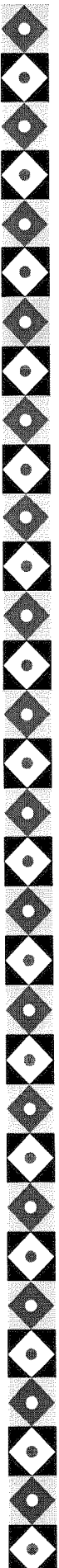


ADA Logo

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*Tulane University  
Department of Biomedical Engineering  
Team Design Show 2008*

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## The Client

Our client is a special needs teacher at Grace King High School. Among other lessons, she uses the classroom sink to teach her students functional independence, including life skills such as teeth brushing and hand washing.

## The Problem

The current sink in the classroom has a faucet that is difficult for the students to reach and to operate. Once the water is turned on, it only remains on for a short period of time. Also, the current sink is shallow so water splashes onto the user and it is not deep enough to be used for dishwashing, which is one of the skills that the teacher is interested in teaching.

## The Goal

The goal is to modify the existing countertop and sink to make it accessible for all users, both those standing and those in wheelchairs. The sink should be usable by the special needs students without the aid of the teachers. Also, the basin must be deep enough to be used to teach the life skills that the teacher is interested in demonstrating, including hand washing, teeth brushing, and dishwashing.

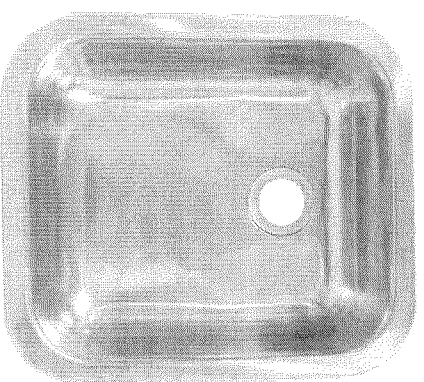
## Design Criteria

- Larger basin
- Easy-to-use faucet handle
- Faucet handle within reach
- Higher countertop
- Safe for all users
- Aesthetically pleasing
- Fits ADA standards

## Our Solution

### Sink Basin

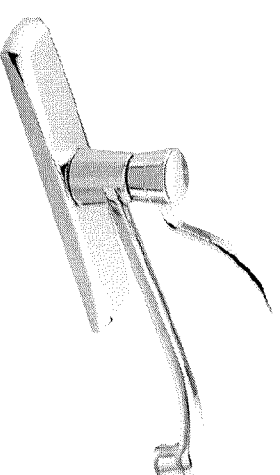
We will replace the current porcelain sink with a larger stainless steel basin. The new basin is a bar sink that is 5.5 inches deep. This stainless steel basin is easy to clean and extremely durable. The sink is also shallow enough to allow legroom underneath the sink. The basin also has the drain toward the back to allow for maximum distance from the plumbing.



Stainless steel drop-in sink  
L:15 5/8", W:14", D:5 1/2"

### Faucet

Bronze, chrome-finished 4" lever-handle faucet  
Spout reach : 9", Spout height: 5 3/8"



We are mounting a new faucet on the right side of the basin within reaching distance of the user. The faucet has a lever handle that is very easy to maneuver and complies with ADA standards. The spigot rotates around its axel, allowing the user to maximize the uses of the basin and the faucet. We have also limited the range of motion of the spigot to keep it from rotating into the user's lap. The combined height of the faucet and depth of the basin is almost 11 inches, which increases the versatility of the sink

### Countertop

In addition to removing the current sink, we are cutting out a portion of the existing countertop. We will install a new section of countertop made of Dupont™ Corian®, with additional Corian® segments stacked on top of the existing countertop. This will effectively raise the overall height of the sink and countertop by 2 inches in order to allow the tallest wheelchairs to comfortably fit under the countertop. We are working with Gulf Coast Countertops to acquire Corian® and professional assistance with installation logistics.