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by MELVIN ALVARE	Z					
for OTIS COLLEGE (AND DESIGN	OF ART					
a 6 x 8 ft tarpaulin c information on flood precautions that tra into four kits for saf education.	d safety nsforms 36"					
Sup	plemental Survival Kit					
		192"		192"		
72"						
SOS Distress Sign						

	3 ► Research / Development					
	4 ► Multiple Functions					
	5 ► Materiality: No Waste					
	6 ► Materiality: Ductape					
	7 ► Information Design					
Spring 2014 Senior Project	8 - Transformation: Calendar					
for OTIS COLLEGE OF ART AND DESIGN	10 ► Transformation: Information Board					
Adviser: Ana Llorente	12 > Transformation: Survival Kit					
Research & Production January - May 2014	14 > Transformation: Distress Symbol					
	My senior project is a flood preparedness kit made out of polytarp and ductape that provides multiple functions. It contains designed informaton, made out of black and white ductape strips, that aid in flood preparedness. The project is designed for public schools. The project is designed for public schools.					

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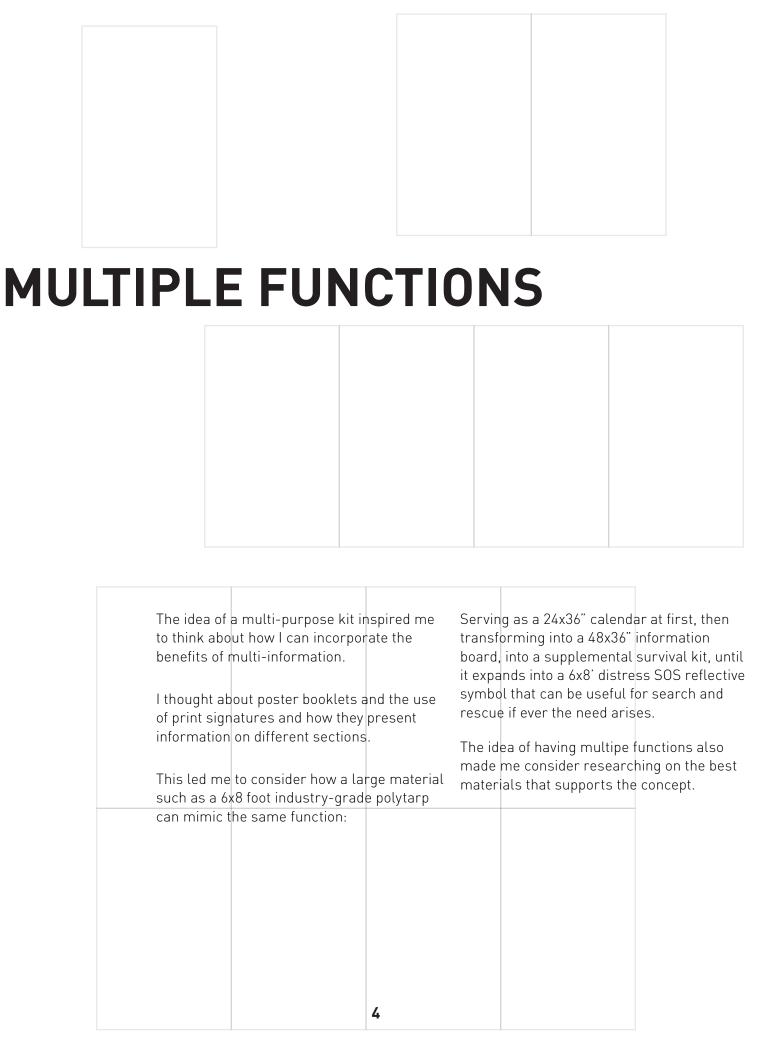
The project is designed for public schools and other designated evacuation shelters in the Philippines.

The Philippines.

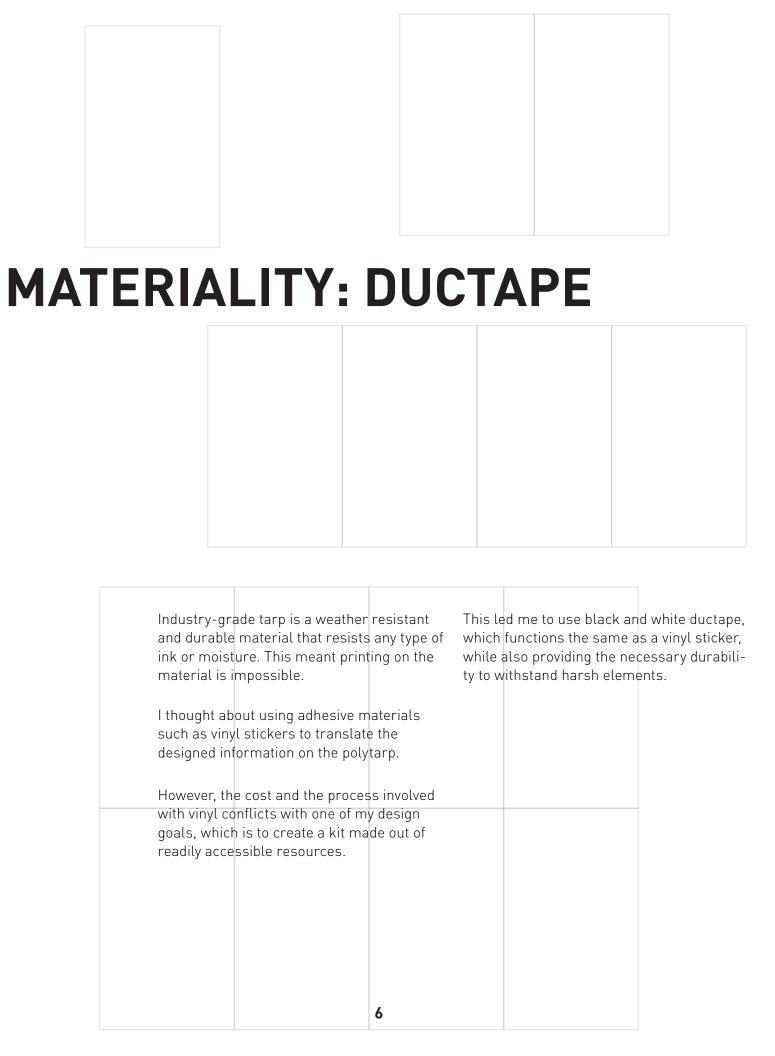
This kit is intended to be placed in public schools as well as other designated evacuation and enters to not only act as educational material, but also provide supplemental aid if ever the need arises.

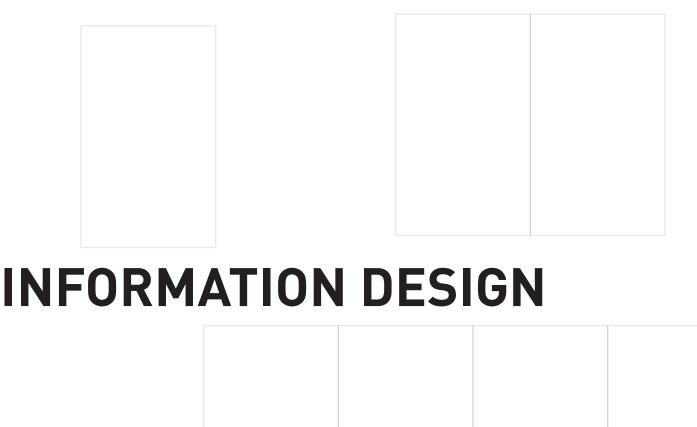
Materials readily available in the community were used in order to promote resourcefulness and to communicate the possibilities of re-creation and customization to optimize what it can offer towards communal safety.











Each of the transformation contains relevant information on flood safety, storm warning signals, and safety precautions. The data I have gathered is designed to accomodate the use of ductape strips, which allows for large scale graphics without worrying about large format printing.

I have also decided to include comprehensive information as inserts to further inform the community about flood safety. Another goal for the inserts was to also inspire the community to add to the pre-existing design; improving it for their needs since the materials required to add on to the template is readily available.

To create large sheets of adhesive sticker out of the ductapes, the strips are lined on a semi-porous surface so the adhesive can still be easily removed. They are then cut out in order to create a large sheet that can be used to assemble the design on the polytarp.

The stencils I used for creating the type can be printed out to size to allow the replication of the kit. This can be an educational activity that students in public schools as well as the community can partake in to learn about the possibilities of information design as well as being creative in using materials that are available around them.



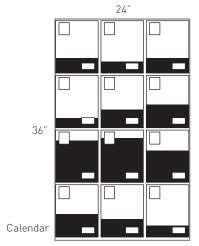
TRANSFORMATION: CALENDAR

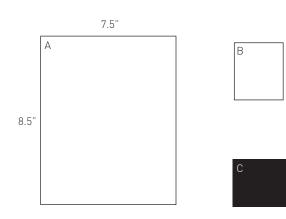
One of the initial transformations of the flood preparedness kit is a 24x36" calendar that contains information on the average temperature and water level per month in the Philippines which is directly related to the intensity of flooding during the occurrence of a typhoon.

I designed the calendar to relay information without having to display the name of the month. I designed 12 blocks with varying black bar heights to signify the difference of water levels per month.

The temperature on the upper left corner signify the average highs and lows during the month, which directly affect storm intensity as well flooding levels.

All of the information on the calendar are made from ductape strips, which allows easy modification when necessary.





D



B - Average high and low temperature (in Celsius)

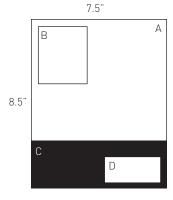
C - Average water levels

D - Average water level in mm (millimeters)

* Water level (C) height is relative to the highest and lowest water level for the year and is represented with black or another color that contrasts the month block (A) and the the average water level mm type color (D)

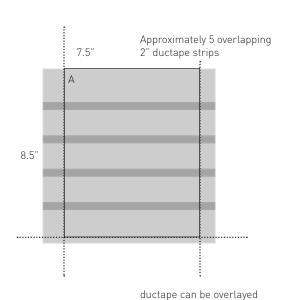
When overlaying ductapes, it is best to use contrasting colors such as black on white or vice versa to maintain a clear display of information.

Overlayed ductapes can also be easily removed, allowing further modifications if changes in data or additional customizations are needed.





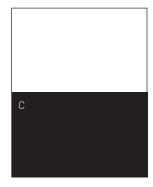
Text is approximately 140 pt which is roughly equivalent to 2 inches, making it fit inside a strip of ductape

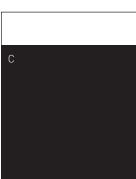






Contrasting ductape strips (black on white)





on a semi-porous surface

assembling the block.

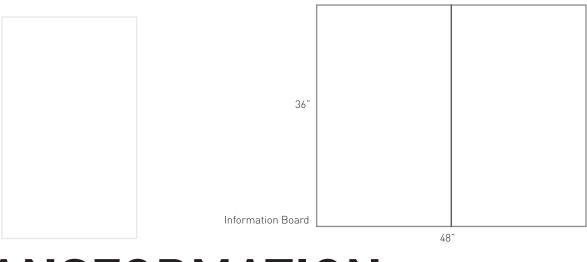
such as a cutting mat when







The size of type equivalent (mm) of the water level height will stay the same.



TRANSFORMATION: INFORMATION BOARD

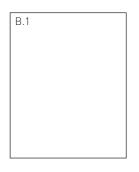
The information board is a 48 x 36" flood kit transformation that contains information about storm signals, emergency hotlines, and comprehensive precautionaly measures to ensure safety during flooding and storms.

Storm intensity is also directly related to flooding. This particular transformation aims to inform the community on the storm signal levels set by PAGASA (Philippine Atmospheric, Geophysical & Astronomical Services Administration).

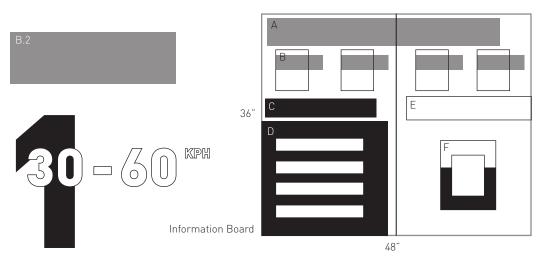
The top part of the board provides information on the four storm signals and their respective wind intensities. The bottom left corner shows emergency hotline numbers.

The bottom right corner of the board is an insert that contains comprehensive information on proper precautionary measures during specific storm signals. The information is available on both English and native Filipino (Tagalog) language.

Adequate space is also provided for additional information to be added by the community.



Contrasting ductape strips can overlap and still remain legible.



The 24x36" calendar expands into the information board

3.5"

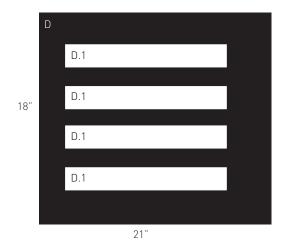
- A Info board header is made up of 3 strips of ductape to create 3.5 inch type
- B Storm Signal Level (B.1) is laid over wind intensity (B.2) using contrasting ductape strips
- C Hotlines Section Header
- D The hotline numbers section act as the base for multiple emergency contact information (D.1) overlayed on top.
- E The additional information section allows the community to add in relevant information
- F Transparent pouch for additional inserts. The pouch is a combination of 30% black ductape strips and 70% white ductape strips to represent capability for holding supplemental materials. The clear vinyl that acts as a pouch will be overlayed on top of the black section.

WARNING SIGNS

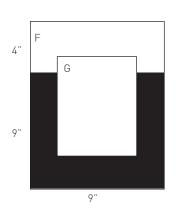
approximately 3 strips of 2-inch ductape

[©] EMERGENCY HOTLINES

D.1



D.1 (02) 911 - 1406
D.1 (02) 912 - 5668
D.1 (02) 911 - 1873
D.1 (02) 912 - 1873

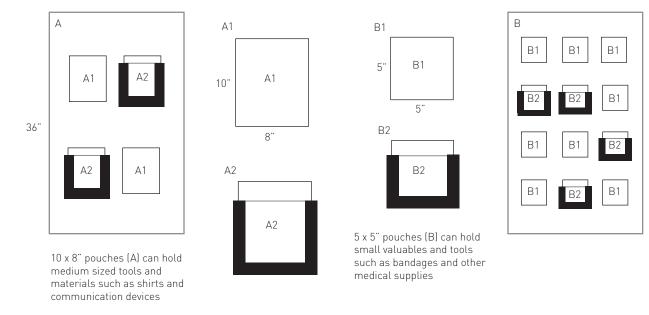


5" E 21"

G G 11" G 8.5"

letter-sized insert containing comprehensive precautionary measures along with a translated version





The information board expands into a 4 column supply kit that can hold tools in various sizes.

A - 10 x 8 inches

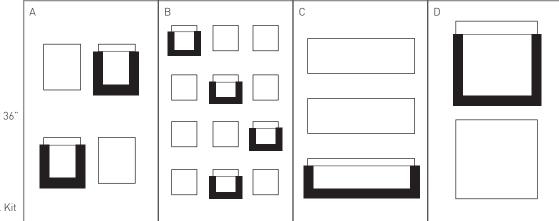
B - 5 x 5 inches

C - 5 x 18 inches

D - 12 x 12 inches

E - Pouch

Supplemental Survival Kit

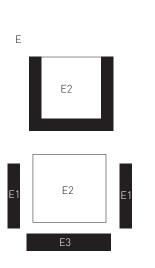


192"

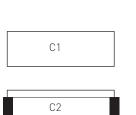
Pouch Installation:

The pouch is made from strips of black ductape (E1) and clear vinyl (E2) equal to the size of the base ductape block.

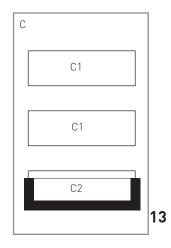
The vinyl is secured around the edges with the ductape and is proofed with additional strips inside the formed pouch.



Add a one inch margin to length of the bottom strip (E1) for added strength



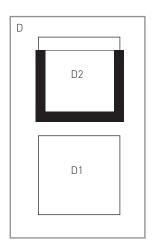
5 x 18" pouches (C) can hold long tools and materials such as ropes

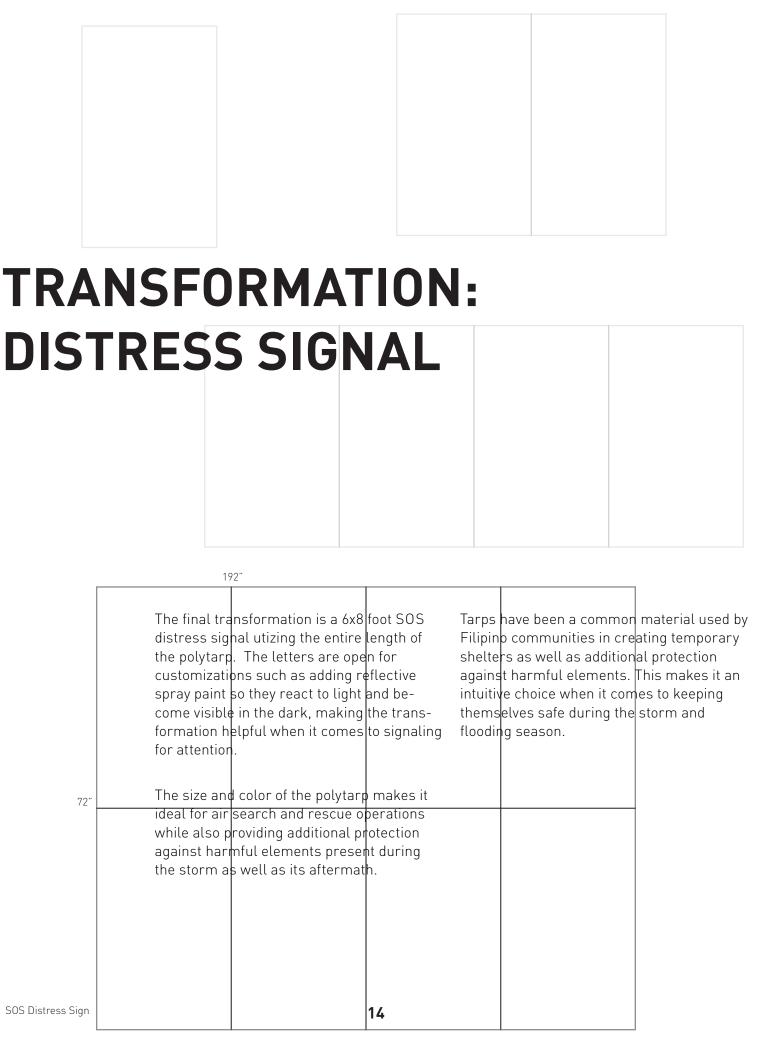


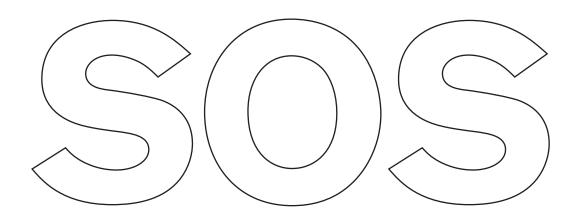
D1



12 x 12"" pouches (D) can hold fairly large materials that would not fit on other pouches

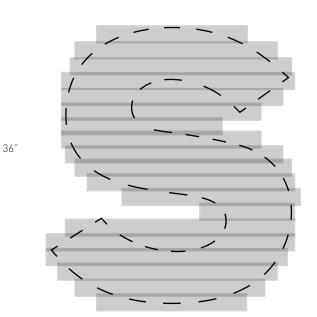






The SOS distress signal transformation contains 36" text that can be read from afar.

Additional enhancements such as attaching reflective adhesive on the letterforms can be applied to make it more functional.



One letterform needs needs approximately 20 strips of 2 inch ductape

