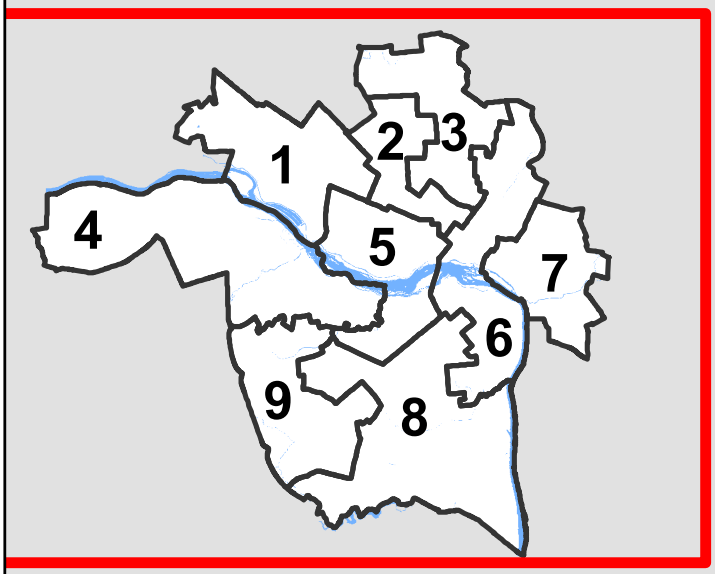
City of Richmond
Department of Planning & Development Review

17.05 Review

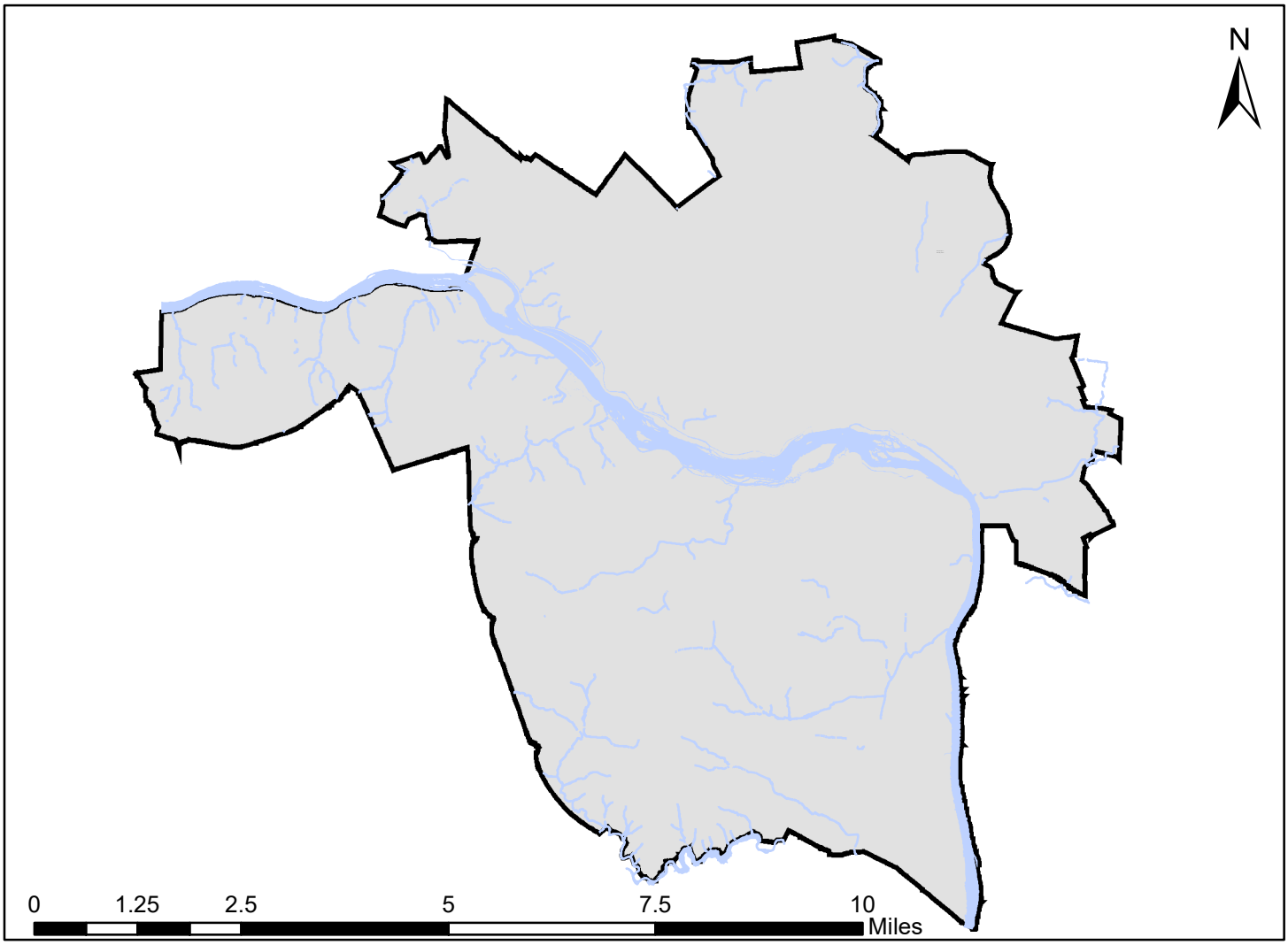
LOCATION: City-wide

COUNCIL DISTRICT: City-wide

PROPOSAL: Final review of new GRTC bus shelters.



For questions, please contact Josh Son
at 646-3741 or joshua.son@richmondgov.com



Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335
http://www.richmondgov.com/CommitteeUrbanDesign

Application Type

- ☐ Addition/Alteration to Existing Structure
- ☐ New Construction
- ☐ Streetscape
- ☑ Site Amenity
- ☐ Encroachment
- ☐ Master Plan
- ☐ Sign
- ☐ Other

Review Type

- ☐ Conceptual
- ☑ Final

Project Name: GRTC New Shelters

Project Address: Citywide

Brief Project Description (this is not a replacement for the required detailed narrative) :

GRTC will be replacing and installing shelters within the City of Richmond with a new design.

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: Dironna Clarke Email: **Dironna.Clarke@richmondgov.com**

City Agency: **DPW** Phone:

Address: **900 E. Broad Street, Richmond, VA 23219**

Main Contact (if different from Applicant): **Adrienne Torres**

Company: **GRTC Transit System** Phone: **(804) 474-9798**

Email: **adrienne.torres@ridegrtc.com**

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.

Urban Design Committee (UDC)
GRTC Shelter Design

City of Richmond
Urban Design Committee
c/o Johsua Son
900 East Broad Street, Room 510
Richmond, VA 23219

1) Purpose and Background
   The City of Richmond and GRTC Transit System worked collaboratively since January 2016 to develop a new bus network known as the Richmond Transit Network Plan (RTNP) that restructured the existing transit routes in a manner that would provide seamless connectivity to the GRTC Pulse Bus Rapid Transit (BRT). The RTNP and the Pulse were launched June 24, 2018. GRTC has been monitoring the system identifying bus stop locations that need improved amenities, especially shelters.

   GRTC conducted a survey to gather feedback on design preferences from the public on what they believe would be an improved bus shelter for the City of Richmond. The survey was conducted online via SurveyMonkey and in-person. The results of the survey were used in the shelter selection process.

2) Selected Shelter Design
   Survey respondents selected the desire to have continuity amongst the new shelters with the PULSE stations. Majority of respondents preferred a modern design, with a slanted roof, and dark metal features.

   GRTC has selected the Brasco Eclipse series with sloped roof in matte black. The shelter design has width and depth ranges which provide footprint flexibility dependent on the width of the sidewalk, and frequency of use of the bus stop. Shelters will include a matching bench with armrests, and advertising/map case and solar panel lighting options.

   Design Summary
   Structure Material: Aluminum
   Structure Color: Black (powder coated)
   Roof Style: Sloped
   Roof Color: Matte Black
   Panel Material: Tempered Glass
   Bench: Black with Armrests
   Add-ons: Map Case, GRTC Advertising Display, Solar-Lighting

Examples of the Brasco Eclipse – Sloped:

3) Project Schedule
    - Approval by UDC of shelter design — March 2019
    - Order shelters — March 2019 – On-going

4) Project Budget and Funding Sources
   GRTC will use grant funds to purchase the shelters. GRTC currently has 5307 grant funds, and private grant funds to use toward shelter purchases.

ECLIPSE

Highly Vandal Resistant Design with Pocketed Columns to Conceal Fasteners

The Eclipse series transit shelter delivers an urban edge to any streetscape with its contemporary roof lines and bold round columns. It features 4.5" or 6" round pocketed columns and header to conceal hardware and provide unparalleled structural integrity. The Eclipse shelter is available with a sloped or arched roof with cantilevered, full, or no walls. Roof glazing can be transparent with polycarbonate or acrylic or opaque with powder coated aluminum. Consider adding solar lighting to this shelter, which is designed with a low profile flexible solar panel and header mounted battery box. It's available with or without a front windscreen and can be paired with an AC or DC illuminated advertising display. Various wall glazing options are available, including tempered glass, laminate glass or perforated aluminum, all of which can be tailored with custom branding elements. This shelter also offers vertical column LED strip lighting. Available only in a powder coat finish, of the standard or custom color of choice.

Eclipse (EC) Standard Configurations

EC	D	L	Roof Style	Roof Material	Column	Side Walls	Front Wall	Wall Material	Advertising Box	LED Light	Power
	05	08	AR = Arched	AC = Acrylic	4 = 4.5" Round	C = Cantilevered	0F = None	0W = None	0A = None	0L = None	0 = None
	06	10	SL = Sloped	AL = Aluminum	6 = 6" Round	F = Full	CF = Center	LG = Laminate Glass	U2 = Unlit 2-Sided	1L = 1 LED	A = AC
		12		PC = Polycarbonate			LF = Left	TG = Tempered Glass	L2 = Lit 2-sided	2L = 2 LEDS	D = DC
		14		TW = Twinwall			RF = Right	PA = Perf. Aluminum	UV = Unlit V-shaped	3L = 3 LEDS	
		16							LV = Lit V-shaped	4L = 4 LEDS	

Ordering Matrix: EC- XX (D) XX (L) - XX (Roof Style) -XX (Roof Material) - X (Column) - X (Side Walls) - XX (Front Wall) - XX (Wall Material) - XX (Advertising Box) -XX (# of Lights) - X (Power)

Example: EC-0512-AR-AL-4-C-0F-TG-0A-1L-A

Included

- 4" Adjustable Anchor Boots & Mounting Hardware
- Standard Powder Coat
- Fully Welded Roof Frame—Delivered Assembled
- Tamper Resistant Hardware

Optional Add-ons

- ☐ 4' x 6' Lit or Unlit Advertising Display
- ☐ Front Windscreen
- ☐ Solar Lighting with Flex Panel
- ☐ Escutcheon Covers
- ☐ USB Charging Ports
- ☐ Wall-mounted Leaning Rail
- ☐ Wall-mounted 20X30" Map Case
- ☐ Column-mounted Waste Receptacle
- ☐ Integrated Real-time Digital Display
- ☐ Wall Glazing Artwork
- ☐ Custom Powder Coat Color Match
- ☐ Woodgrain Powder Coat
- ☐ Anti-graffiti Powder Coat
- ☐ Hanging Aluminum Signage
- ☐ Vertical Column LED Accent Lighting

Cantilevered

Full Side Wall

Cantilevered

Full Side Wall

5x14' Eclipse with Sloped Acrylic Roof, Full Sides, Custom Wall Glazing, Aluminum Hanging Sign

5x12' Eclipse with Arched Aluminum Roof, Cantilevered Sides, Custom Wall Glazing

Eclipse Header and Side Wall Demonstrating Concealed Fasteners and Pocketed Columns

Brasco International, Inc. | (313) 393-0393 | info@brasco.com | www.brasco.com

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Submission Requirements

• 10 copies of the application cover sheet and all support materials (see below), unless the application is for an encroachment, in which case only 6 copies are required. Plan sheets should be 11" x 17", folded to 8 1/2" x 11". If it is not possible to scale plans to these dimensions, please provide one set of larger, scaled plans.
• An electronic copy (PDF preferred) of all application materials, which can be burned to disc, emailed, or delivered by FTP.

All applications must include the attached cover sheet and the following support materials, as applicable to the project:

For Conceptual Review

• A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
• A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
• A set of floor plans and elevations, as detailed as possible.
• A landscaping plan which shows the general location and character of plant materials and notes any existing tree to be removed.

For Final Review

• A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
• A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
• A set of floor plans and elevations, as detailed as possible.
• A landscaping plan that includes a complete plant schedule, the precise location of all plant materials, and a landscape maintenance analysis. The plant schedule must show number, size and type of each planting proposed. If existing trees are to be removed, their size, type and location must be noted on the landscape plan.
• The location of all lighting units should be noted on a site plan, including wall-mounted, site and parking lot lighting. Other site details, such as benches, trash containers and special paving materials, should also be located. Include specification sheets for each item.
• Samples of all proposed exterior building materials, including but not limited to brick, mortar, shingles, siding, glass, paint and stain colors. When as actual sample cannot be provided, a product information sheet that shows the item or a photo of an existing item may be substituted.

Review and Processing

Once an application is received, it is reviewed by staff, who compiles a report that is sent to the UDC. A copy of the report and the meeting agenda will be sent to the applicant prior to the meeting. The applicant or a representative should be present at the UDC meeting or the application may be deferred to the next regularly scheduled meeting. It is also strongly suggested that a representative of the City Agency which will have final responsibility for the item be present at the meeting (if the applicant and the representative are not the same). Once the UDC recommends action on the application, it is automatically placed on the agenda for the next City Planning Commission (CPC) meeting. An exception to this is encroachment applications, recommendations for which are forwarded to the Department of Public Works. The applicant or a representative must be present at the CPC meeting or the application may be deferred to the next regularly scheduled meeting.

GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

Overview

As part of the 2019 Bus Shelter Design Project, GRTC Transit System requested feedback from the public on overall aesthetics and functionality of basic shelter designs. This report summarizes the feedback results.

Methodology

A thirteen-question survey was designed using Survey Monkey that described general design themes and identified personal design preferences. Using a Likert scale, the survey identified the degree to which respondents felt the upgraded bus shelters would affect ridership, safety concerns, and the appearance of Richmond City. The survey was open between January 17th and January 30th and could be accessed from a link on the GRTC website. Hardcopies of the survey were distributed at a Transit Advisory Group meeting to board members and general public, and at a Consultative Group meeting with City of Richmond staff. Both meetings took place on January 17th. The in-person surveys were collected at the end of each meeting and manually entered in Survey Monkey.

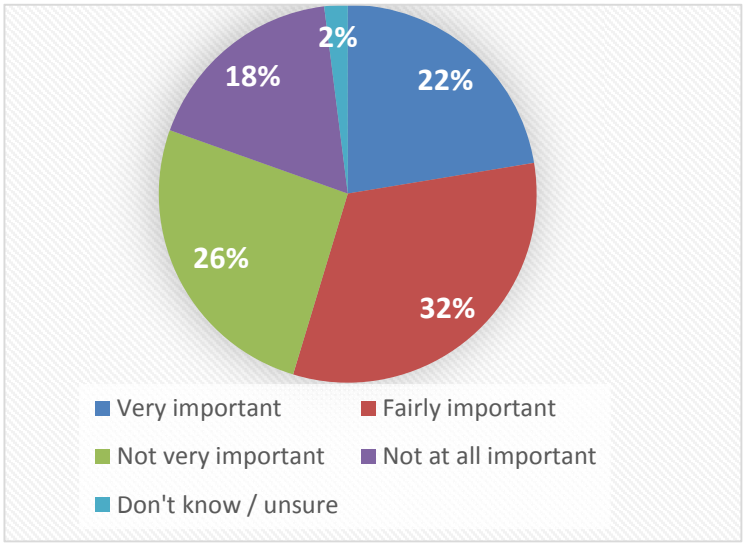
Results

355 individuals provided their input for the Bus Shelter Design Project. The survey asked the individuals about their bus use and divided into three (3) categories based on it; weekly riders, monthly riders and yearly/never riders. The purpose of this was to see if there were any areas of the survey that one group statistically answered differently or weighted more heavily than the other groups. The results expressed that the frequency of which the respondents use the bus did not significantly influence their answers towards the aesthetics and functionality of shelter design, therefore the results listed from the survey are a combination from all groups. 55% of respondents would like to see the new bus shelters match the Pulse station and the majority went on to select that the color should be black, the roof slanted, and the side panels made of tempered glass. While 88% consider flexibility to be an important feature for the new shelter design the survey did show that respondents would like to see the maximum amount of siding, ideally having three (3) or four (4) side panels, where space requirements allow. The survey showed that 86% of the respondents felt the newly designed shelters would improve the appearance of their local area and have a positive effect on safety and future ridership levels both concerning themselves and others.

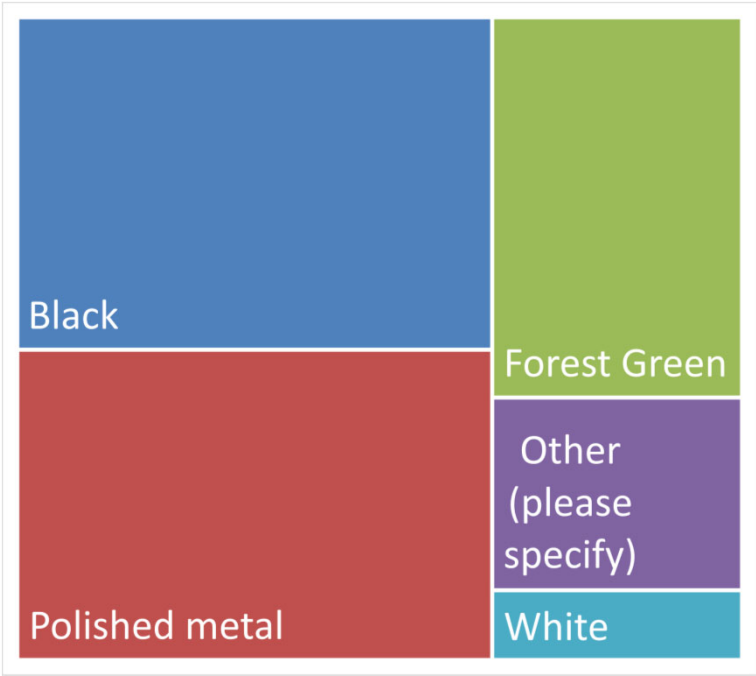
GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

1. How important is it that the new shelters resemble the theme introduced with the Pulse stations?	Number	Percent
Very important	79	22%
Fairly important	114	32%
Not very important	91	26%
Not at all important	62	18%
Don't know / unsure	7	2%
	353	



2. When thinking about Richmond, VA what color do you envision for the new bus shelters?	Number	Percent
Black	118	34%
Polished metal	110	32%
Forest Green	71	20%
Other (please specify)	36	10%
White	13	4%
	348	



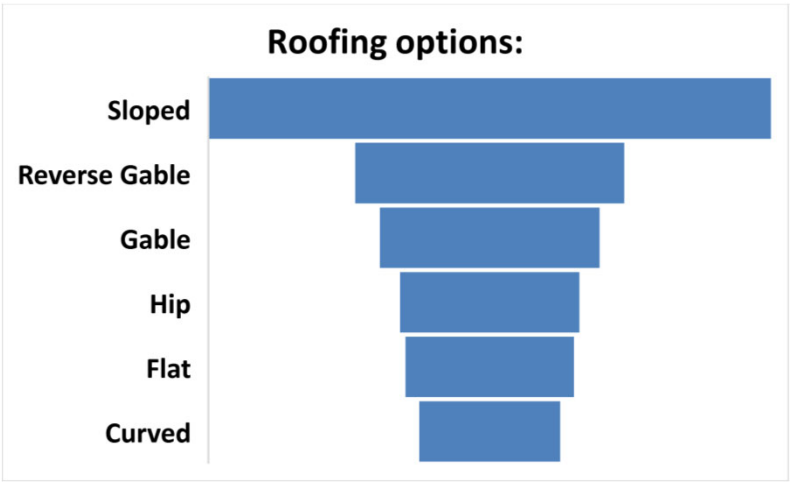
Keywords from 'Other' category:

match pulse stations wood Black Purple metal colors pulse green

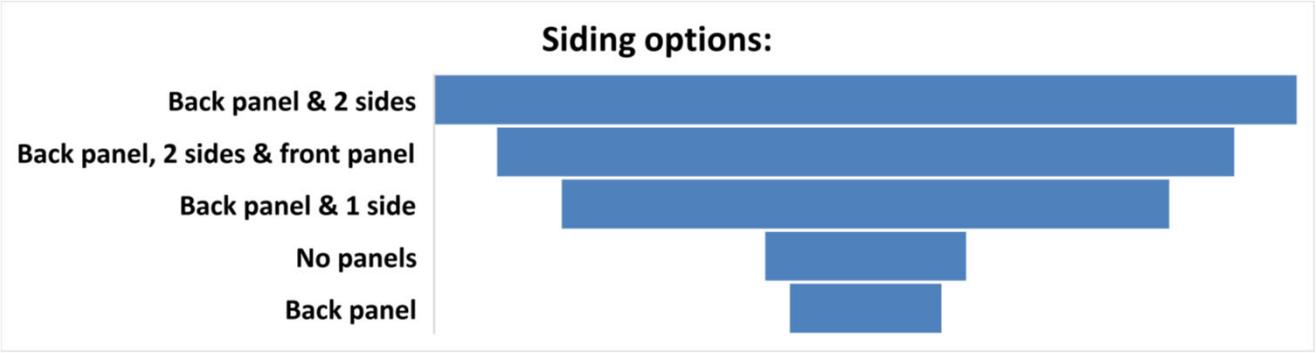
GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

3. Consider the following roofing options and select your top 2 preferred roofing designs.(Please select 2):	Number	Percent
Sloped	207	37%
Reverse Gable	99	17%
Gable	81	14%
Hip	66	12%
Flat	62	11%
Curved	52	9%
	567	



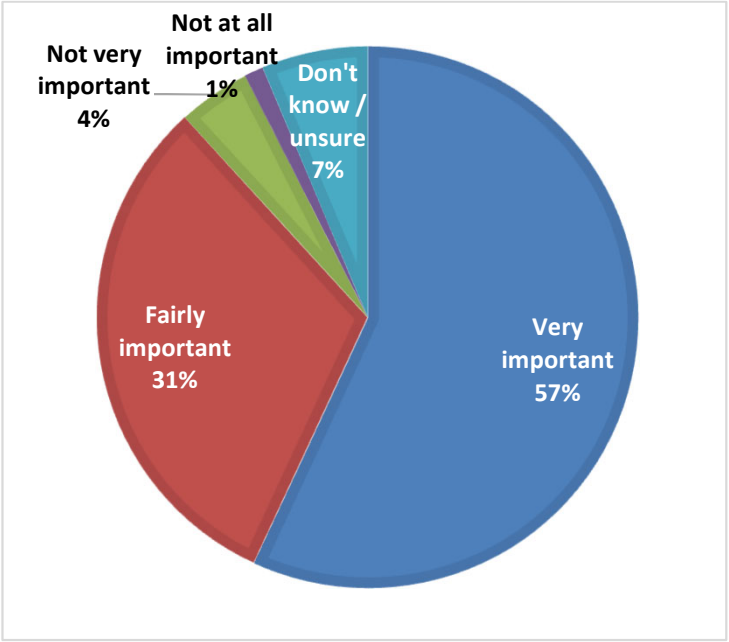
4. Consider the siding options below and select your top 2 preferred designs for your shelter. NOTE: Images are for example only, you are deciding on panel preference.(Please select 2):	Number	Percent
Back panel & 2 sides	193	34%
Back panel, 2 sides & front panel	165	29%
Back panel & 1 side	136	24%
No panels	45	8%
Back panel	34	6%
	573	



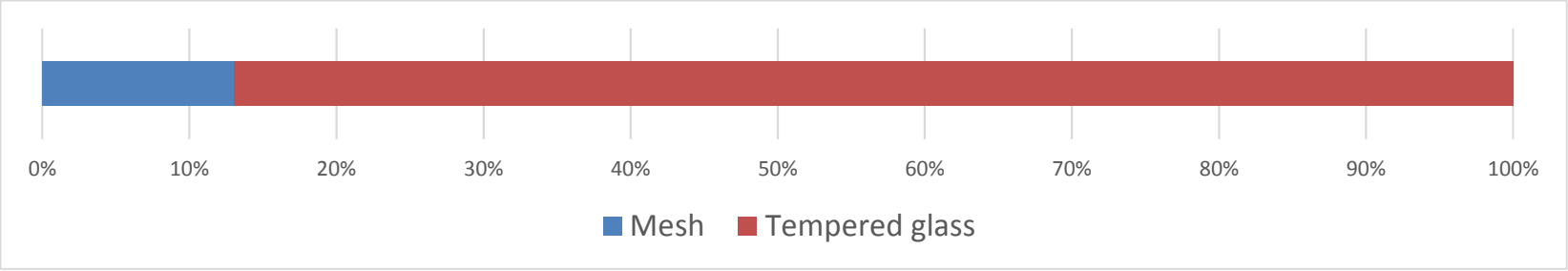
GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

5. How important is flexibility in a bus shelter? For example, being able to adjust the width to appropriately fit sidewalks and other surroundings before installation.	Number	Percent
Very important	198	57%
Fairly important	109	31%
Not very important	15	4%
Not at all important	4	1%
Don't know / unsure	22	6%
	348	



6. Consider the following panel materials below and select your preferred panel material.	Number	Percent
Mesh	29	13%
Tempered glass	194	87%
	223	

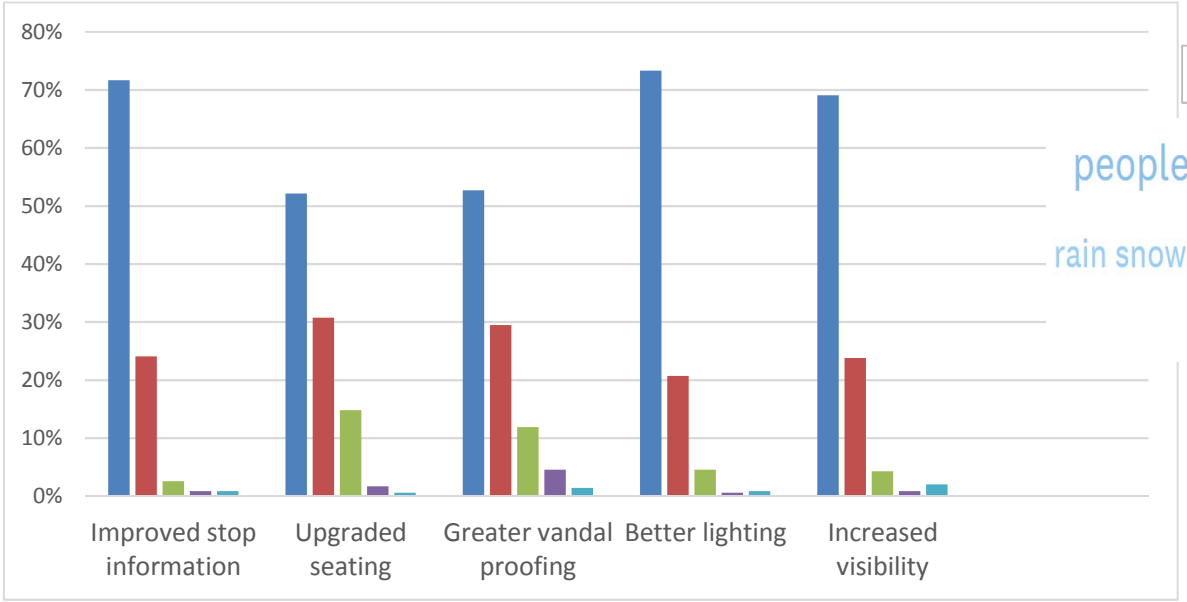


GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

7. How important are each of the following attributes for improving shelters in your local area?	Improved stop information	Upgraded seating	Greater vandal proofing	Better lighting	Increased visibility	Other (please specify)
Very important	253	183	186	258	241	
Fairly important	85	108	104	73	83	
Not very important	9	52	42	16	15	
Not at all important	3	6	16	2	3	
Don't know / unsure	3	2	5	3	7	
	353	351	353	352	349	58

	Percent				
7. How important are each of the following attributes for improving shelters in your local area?	Improved stop information	Upgraded seating	Greater vandal proofing	Better lighting	Increased visibility
Very important	72%	52%	53%	73%	69%
Fairly important	24%	31%	29%	21%	24%
Not very important	3%	15%	12%	5%	4%
Not at all important	1%	2%	5%	1%	1%
*Don't know / unsure	1%	1%	1%	1%	2%



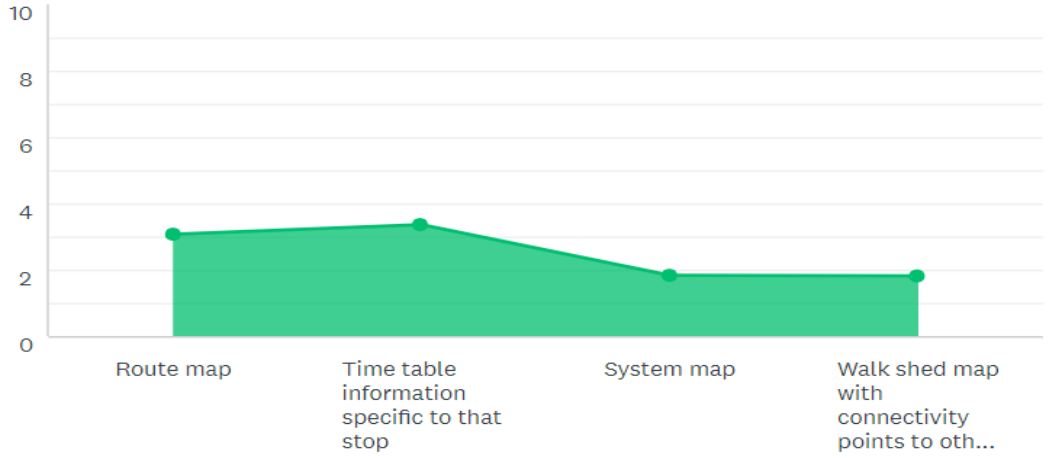
Keywords from 'Other' category:

GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

8a. Rank the route/schedule information you would like to see available within the shelter.NOTE: Rank the following with #1 being the most important feature and #4 being the least important feature.	Route Map	Time table information specific to that stop	System map	Walk shed map with connectivity points to other routes that are nearby (where applicable)	
1	111	185	19	29	
2	147	105	39	49	
3	63	34	146	94	
4	13	14	134	172	
	334	338	338	344	

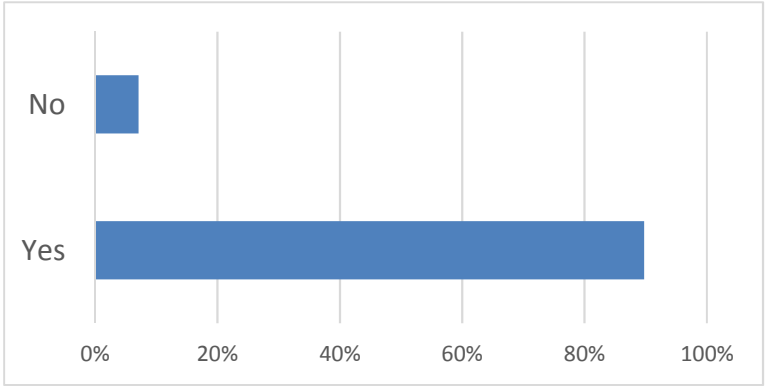
	Percent				
8b. Rank the route/schedule information you would like to see available within the shelter.NOTE: Rank the following with #1 being the most important feature and #4 being the least important feature.	Route Map	Time table information specific to that stop	System map	Walk shed map with connectivity points to other routes that are nearby (where applicable)	
1	33%	55%	6%	8%	
2	44%	31%	12%	14%	
3	19%	10%	43%	27%	
4	4%	4%	40%	50%	



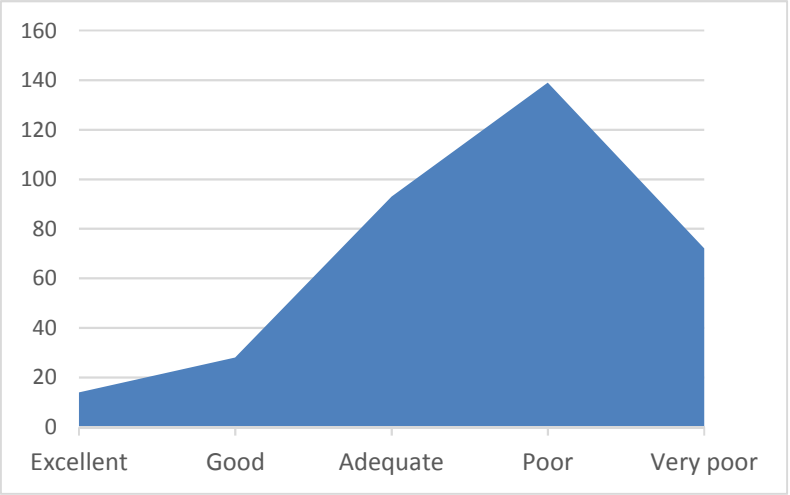
GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

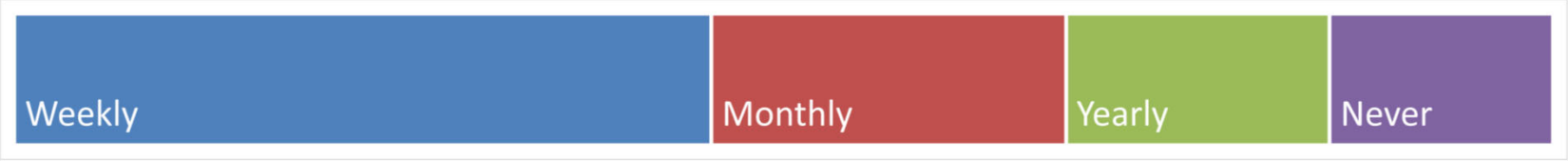
9. Do you see solar lighting as a viable option to improve the shelters?	Number	Percent
Yes	316	90%
No	25	7%
Other	11	3%
	352	



10. Rate the quality and standard of bus shelters in your local area.	Number	Percent
Excellent	14	4%
Good	28	8%
Adequate	93	27%
Poor	139	40%
Very poor	72	21%
	346	



11. How often do you use the bus?	Number	Percent
Weekly	159	45%
Monthly	81	23%
Yearly	60	17%
Never	51	15%
	351	

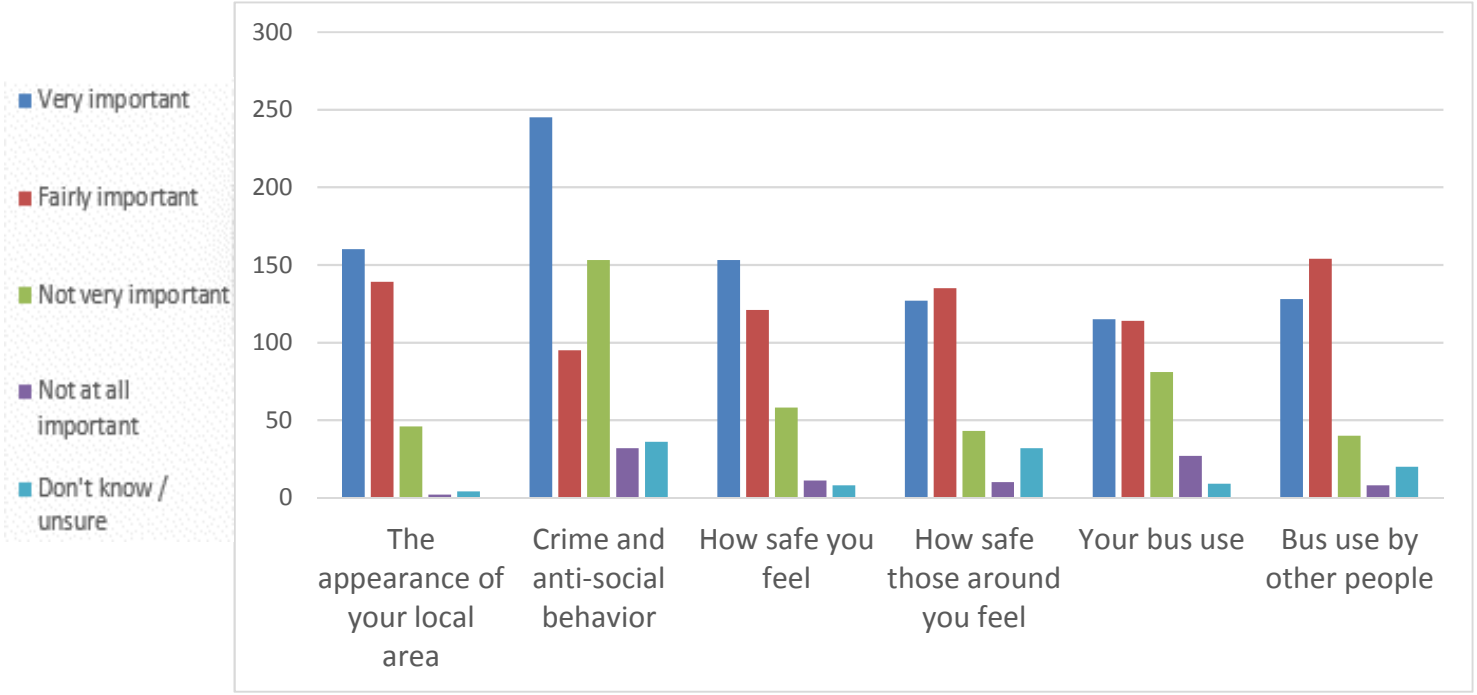


GRTC Transit System - 2019 Bus Shelter Design Project

Survey Results

12a. Imagine the shelter you have designed. What positive effect do you think your shelter design would have on each of the following areas?	The appearance of your local area	Crime and anti-social behavior	How safe you feel	How safe those around you feel	Your bus use	Bus use by other people
A very big effect	160	245	153	127	115	128
A fairly big effect	139	95	121	135	114	154
Not very much of an effect	46	153	58	43	81	40
No effect at all	2	32	11	10	27	8
Don't know / unsure	4	36	8	32	9	20
	351	561	351	347	346	350

12b. Imagine the shelter you have designed. What positive effect do you think your shelter design would have on each of the following areas?	The appearance of your local area	Crime and anti-social behavior	How safe you feel	How safe those around you feel	Your bus use	Bus use by other people
A very big effect	46%	44%	44%	37%	33%	37%
A fairly big effect	40%	17%	34%	39%	33%	44%
Not very much of an effect	13%	27%	17%	12%	23%	11%
No effect at all	1%	6%	3%	3%	8%	2%
Don't know / unsure	1%	6%	2%	9%	3%	6%



13. Summarize the shelter design you created in the box below:Please include: Overall style , color, roofing, siding preference, and any other design details you wish to add.

Keywords from