



EXHIBIT F
RFP# 228-24-01
Scope of Services
BUS SHELTERS AND AMENITIES INSTALLATION SERVICES & PULSE STATION REPAIRS

Background

GRTC is the primary public transportation provider for the Richmond region. The company is a not-for-profit public service corporation jointly owned by the City of Richmond and Chesterfield County. Currently, GRTC operates 34 local routes and 4 express routes (including extended express routes) that provide transit service within the City of Richmond, Henrico County, and a small portion of Chesterfield County – a service area that accounts for nearly 7.5 million passenger rides yearly. In combination with traditional fixed-route service, GRTC also operates a Bus Rapid Transit system, named “Pulse” which launched in June 2018. GRTC provides additional transportation to the service area through ADA paratransit service, and vanpool and carpool development services.

General Requirements

- A. GRTC shall purchase and/or provide all signs and amenities including poles, signs, anchors, shelters, benches, trash cans, real-time electronic displays, and solar light kits. The only exception will be replacement of plexiglass sheets for shelter walls.

Signs and amenities are currently stored at GRTC’s headquarters in the front satellite lot accessible off Lordley Lane, however, the location is subject to change. Contractor is responsible for maintaining a level of neatness in the storage lot and disposing of unpacking debris.

Contractor is responsible for picking up amenities at the storage location and transporting them to the site. Contractor is also responsible for returning reusable amenities to the storage location after un-installation or for disposing of damaged amenities to Sims Metal at 3220 Deepwater Terminal Rd, Richmond, VA 23234.

The contractor may invoice a per-stop transportation charge for shelters, trash cans, and benches.

- B. Contractor shall purchase or provide all installation tools, labor and materials including nuts, bolts, washers, concrete, etc. Contractor shall also purchase or provide replacement Plexiglas sheets for use in shelter repair or wall replacement.



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Contractor is responsible for transportation, fuel, and vehicle maintenance. Mileage will not be reimbursed by GRTC.

- C. All installations, removals, and relocations must be requested and approved in advance by GRTC's Project Manager.
- D. Contractor shall be responsible for obtaining all required permits from the locality in which the amenities will be installed.
- E. GRTC Project Manager will provide the timeline for completion of work when a task order is requested.
- F. Contractor will be responsible for providing all safety equipment and regulations required to completing the task(s) safely per OSHA standards and regulations.
- G. Contractor and all subcontractor(s) must maintain insurance during the entire term of the contract in accordance with the coverages and limits specified in Exhibit E Contractual Terms and Conditions. All insurance coverage must be provided by licensed insurance companies authorized to sell insurance in Virginia by the Virginia State Corporation Commission.
- H. All installations shall comply with the building regulations of the locality in which the amenities are placed. In the event that installation instructions provided by GRTC conflict with guidance from building inspectors, the inspectors' instructions shall take precedence.
- I. From time to time, GRTC may require sign services outside of the specifications outlined above. Should this need arise, GRTC's Project Manager will provide specifications and delivery time to the contractor for consideration.



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SCOPE OF SERVICES – Shelters and Amenities

Background

Bus stop amenities provide accessibility, safety and comfort to bus riders at local stops. They can include shelters, benches or lean rails, trash cans, electronic real-time displays and solar lights.

GRTC's Essential Transit Infrastructure Plan was approved by its Board of Directors in 2022 and has a stated goal of installing amenities at up to 787 additional bus stops by the end of fiscal year 2027.

GRTC seeks a contractor to install and repair amenities at local bus stops within the City of Richmond, Henrico County, and Chesterfield County.

SITE PREPARATION AND CONCRETE WORK

Engineering plans or installation drawings will be provided. Contractor is responsible for contacting Miss Utility to verify any utility lines prior to start of work.

- A. Grub, excavate, and grade immediate area of pad or sidewalk including grass areas, concrete, gravel, etc., Remove and haul away debris to legal dumpsite.
- B. Construct forms; place a base layer of adequately compacted gravel or crushed stone fill, install vapor barrier and steel reinforcement if/as specified in engineering plans. Foundation thickness will be specified in engineering plans or installation drawing and may range from 4" to 8". Concrete may be either reinforced or unreinforced and will be specified in the engineering plans or installation drawings. Pour foundation and concrete slab with 3000 psi concrete.
- C. If shelter slab is against existing concrete curb or other concrete surfaces – provide ½" expansion joint between existing concrete and new shelter slab, install pre-molded filler strip. Shelter slab shall have a troweled finish. Finish floor elevation shall be flush with top of existing curb or sidewalk, or as specified by the engineering drawings.
- D. Concrete pads installed in brick sidewalk may require extra excavation so that slab can be covered with brick for aesthetic continuity.



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- E. Some sites may require additional site work including curbs, gravity walls, bollards, curb ramps, truncated domes or detectable warning strips.



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SHELTERS



“Shelter” refers to an aluminum pre-fabricated structure. Shelters are shipped from the manufacturer in multiple pieces, and the shelter installation task includes the assembly of the structure in addition to the installation on site.

The shelters approved for installation in GRTC’s service may range in size from 5’ x 8’ to 7’ x 16’. They may have either three full walls, one rear wall only (fully cantilever), or one rear wall and two narrow side walls (partial cantilever).

Each shelter installation includes the structure and its component parts: an armless bench or lean rail, a roof-mounted solar light kit, and an optional map case or ad wall and an optional electronic real-time information display.

Shelter Installation

Assemble and install per manufacturer instruction and engineering plans or installation guide.

Shelter Removal

Disassemble per manufacturer’s instructions. Save all usable parts for storage or re-installation and label all parts for easy identification. All parts of a disassembled shelter should be stored together. If stored, relocate all parts to pre-determined storage lot or warehouse.

Shelter Components

In addition to full shelter installations and removals, GRTC Project Manager will occasionally request that the Contractor complete installations, removals, or replacements of shelter components rather than full shelters.



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This will typically happen when portions of a shelter become damaged or need to be adjusted.

A. Shelter glass replacement

Clean up shelter and site of shattered glass, if necessary. Purchase plexiglass and install as replacement for missing glass. Contractor will provide plexiglass.

B. Replacement of plexi in mapcase or ad wall

Clean up shelter and site of shattered glass, if necessary. Purchase plexiglass and install as replacement for missing glass. Contractor will provide plexiglass.

C. Fabricate and install stabilizing bar on shelter wall

Because the replacement plexiglass is more flexible than the original tempered glass shelter wall, it may be necessary to add additional stabilization to the wall, to prevent the plexiglass from flexing to the point of damage.

Contractor will fabricate and install either aluminum or stainless steel stabilizer bars, which should be color-matched to the shelter color.

Install, remove, or replace solar light kit only

Install, remove, or replace in accordance with manufacturer's instructions.

Install, remove, or replace shelter bench or lean rail only

Install, remove, or replace in accordance with manufacturer's instructions.

Install, remove, or replace shelter anchor boot only

Install, remove, or replace in accordance with manufacturer's instructions.

Install, remove, or replace shelter mapcase only

Install, remove, or replace in accordance with manufacturer's instructions.

Install, remove, or replace shelter ad wall only

Install, remove, or replace in accordance with manufacturer's instructions.

Install, remove, or replace electronic real-time information display only



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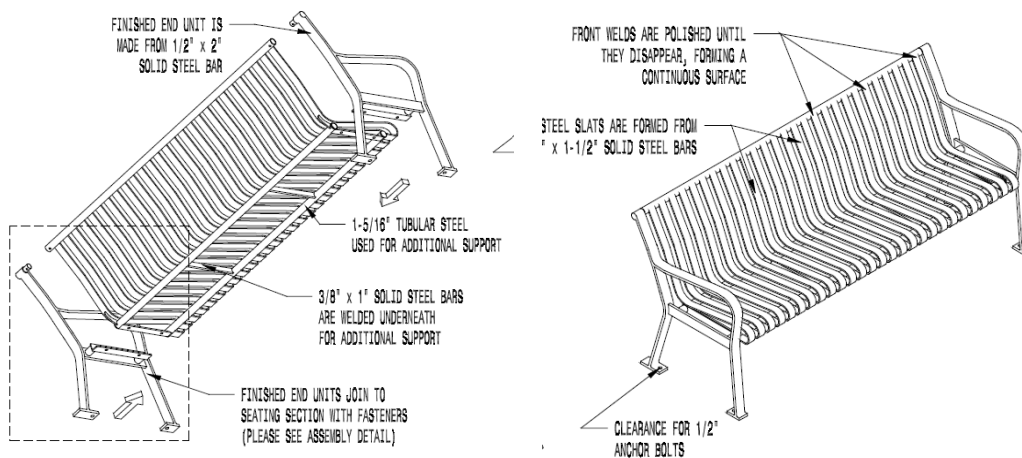
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Install, remove, or replace in accordance with manufacturer's instructions.

ADDITIONAL AMENITIES

STANDALONE BENCHES

The standalone benches approved for installation in the GRTC service are approximately 6' long, slatted steel with optional middle armrest. Benches are shipped from the manufacturer in three pieces; Installation task includes the initial assembly of the bench as well as the installation on site.



A. Install standalone benches on concrete

Installation drawings or engineering plans specifying placement will be provided.

Install four (4), 1/2" threaded expansion bolts in concrete. Using washers as necessary, install bench by bolting to expansion bolts with security nuts. Ensure expansion bolts extend a minimum of 1/2" above tightened security nut.

B. Install standalone benches on brick surfaces

Remove bricks in the immediate location of bench footer. Keep all pavers for re-installation over new concrete footers.



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Install two (2) (one under each end of bench) 6" x 18" footers of 6" concrete. Install four (4), ½" threaded expansion bolts in concrete. Re-cover footers with brick pavers making sure pavers are not damaged.

Using washers as necessary, install bench over the brick by bolting to expansion bolts with security nuts. Ensure expansion bolts extend a minimum of ½" above tightened security nut.

C. Remove standalone benches (any surface)

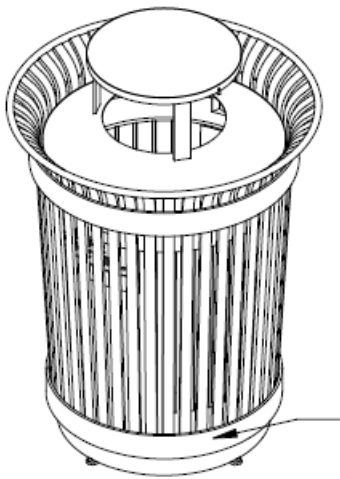
Uninstall the bench from the site, ensuring the removal of all bolts and hardware, and eliminating any potential trip hazards. Restore the site to its original condition.



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TRASH CANS

The Trash Cans approved for installation in the GRTC service are 36-gallon slatted steel receptacles. They have plastic removable liners and removable rain bonnets. The rain bonnets are secured to the cans with flexible security wire to prevent theft or loss.



A. Install Trash Can on concrete

Use anchor bolts to secure the bottom of the trash can to concrete surface. Place plastic liner and rainbonnet, ensuring rainbonnet is secured to can with security cable.

B. Install Trash Can on brick surface

Remove bricks in the immediate location of trashcan footer. Keep all pavers for re-installation over new concrete footers. Install one (1) 24" x 24" concrete footer of 6" concrete. Install one (1) ½" threaded expansion bolts in concrete, in the center of the footer. Cover footer with brick paver. Using washers and nuts as necessary, secure trash can to footer via expansion bolt.

C. Remove Trash Can (any surface)

Uninstall the trash can from the site, ensuring the removal of all bolts and hardware, and eliminating any potential trip hazards. Restore the site to its original condition.



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Amenities Maintenance

A. Painting and Touch-up

Benches, trash cans, or shelters that show sign of wear should be touched up with the provided paint to match the specific amenity. Painting preparation to include cleaning, and sanding are required prior to painting per manufacturer's recommendations. Notice of paint drying should be placed at each amenity that has been painted until it has been confirmed to be dry. Contractor is to follow-up and remove the sign to confirm the project has been completed.



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Installation of Bus Stop Signs

Background

Basic bus stop signs are located at each of GRTC's over 1,600 bus stops system-wide. Each basic bus stop sign consists of multiple individual sign components (see list below) mounted on a single 10-ft tall, 2" square, fully-punched breakaway post. Each sign must be individually assembled.

New signs installations are referred to as a "**Stop Bundle**". Stop bundle tasks include the installation of the post and any combination of the sign components listed below.

When a sign becomes damaged or outdated, GRTC may also request the Contractor to perform ad hoc tasks such as installing, removing, or replacing a single sign component.

Post Installation

When installing a posts in earth (grass or dirt) a 30" post anchor base must be used. The anchor base must be set in a 4,000 psi (maximum) concrete footer 2" below the finish grade that is at least 24" deep with with at least a 2" diameter surrounding all sides of anchor base. 2" of the anchor base must remain above the finish grade. Once concrete is fully set, the sign post slides into the anchor base and a corner bolt must be used to attached the sign post to the anchor base. Corner bolt installation must follow manufacturer instructions to ensure breakaway design.

Posts in concrete/sidewalk must be installed using a plate mount secured to the concrete with 4 bolts. Once the plate mount is secured the sign post slides into the anchor base and a corner bolt must be used to attached the sign post to the plate mount. Corner bolt installation must follow manufacturer instructions to ensure breakaway functionality.

Posts in brick/pavers must be installed using either of the above two methods, depending on the subsurface. Bricks/pavers in the immediate vicinity of the pole must be removed. If the subsurface is earth, post must be installed using an anchor base (following instructions above). If the subsurface is concrete, posts must be installed using a plate mount with corner bolt (following instructions above). Removed bricks/pavers must be trimmed as needed and replaced surrounding the pole where possible.

All complete installations must result in a level surface that is clear of any potential tripping hazards.



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Sign Components

Sign work requests may include work to one or multiple of the below components.

New signs installations are referred to as a “**Stop Bundle**” and may any combination of the sign components listed below.

GRTC will also request the contractor perform ad hoc tasks (ie installing, removing, or replacing individual sign components) when required for stop maintenance or route updates.

Each sign must be individually assembled. Required sign components and assembly instructions will be stop specific and provided by GRTC project manager(s). See diagram below.

- A **Brand Identifier Sign** (aka “lollipop”): a top-of-post, bracket-mounted 12” circular sign.
- A **Solar Light**: a top-of-post solar light and battery. Requires shifting the lollipop to the side of the pole.
- A **Flag Sign**: a 14”x18” right-side L-bend mounted sign with two mounting holes. Flag signs are secured to post with bolts and washers. The design of the Flag Sign is stop-specific.
- Between 1 to 3 **Blade Sign(s)**: either 14’ x 4 (see image below), 14” x 8” (not included in image below), or 14” x 12” (not included in image below) right-side L-bend mounted sign with two mounting holes. Blade signs are secured to post with bolts and washers. Blade designs are stop specific.
- A **Braille Sign**: a 4.5” x 3” steel plate indicating the stop number in tactile braille lettering. The Braille Sign is back-mounted to the post with a flush backing plate and two security screws, and must be mounted 3’ 6” inches from the ground in compliance with ADA requirements. Two varieties of Braille Signs are used throughout the system: stop specific signs that include the individual stop number as well a general sign that simply indicates a bus stop. GRTC project manager(s) will specify required sign type for each stop.
- A **Shadowbox**: an 8.5” x 22” aluminum poster case with a plexi-glass window. Posters are installed by removing security screws on the bottom side of the panel frame, sliding the poster in, then replacing the side of the frame and the security screws. At-Stop Panels are only installed at select stops.
- An **electronic real-time information display** (optional)



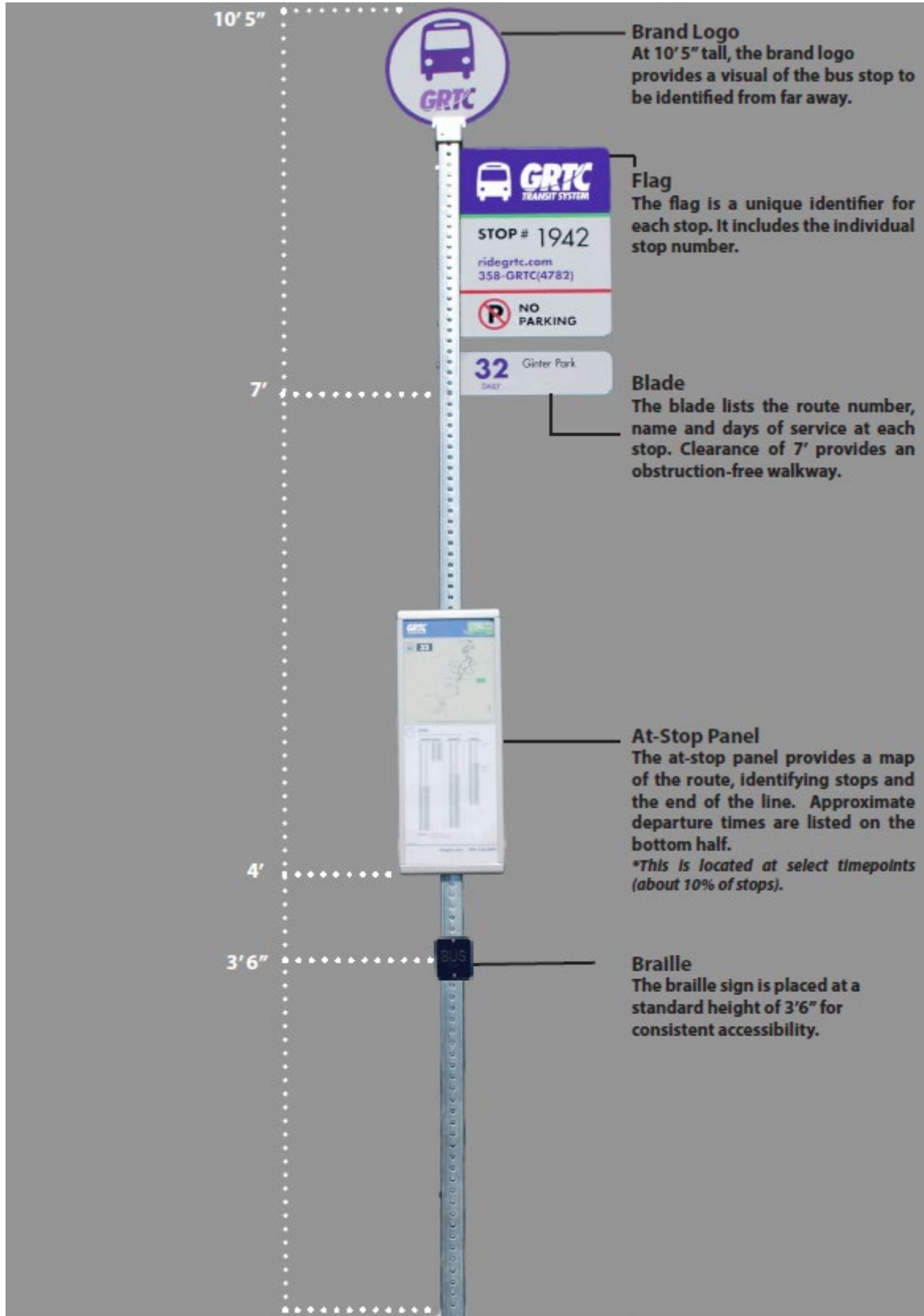
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- A **Square Blade** (Snow Blade or No Smoking Blade): a 4" x 4" L-bend mounted sign with two mounting holes. Square blades are secured to post with bolts and washers. Square Blades are only installed at select stops.
- A **Vinyl Stop Cover**: a temporary flexible vinyl cover that alerts passengers to bus stop changes. Covers come in a variety of sizes with varying text (including but not limited to "Coming Soon", "Permanently Closed", "Temporarily Closed", as well as blank covers and covers with new route numbers). The largest cover size is 35" x 14.5". Each cover includes corner grommets. Covers are installed by sliding over one or multiple sign components and using zip ties to secure the grommet to the post through the perforated post holes. Vinyl Stop Covers are only installed at select stops. (Not included in image below.)

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Brand Logo
 At 10' 5" tall, the brand logo provides a visual of the bus stop to be identified from far away.

Flag
 The flag is a unique identifier for each stop. It includes the individual stop number.

Blade
 The blade lists the route number, name and days of service at each stop. Clearance of 7' provides an obstruction-free walkway.

At-Stop Panel
 The at-stop panel provides a map of the route, identifying stops and the end of the line. Approximate departure times are listed on the bottom half.
**This is located at select timepoints (about 10% of stops).*

Braille
 The braille sign is placed at a standard height of 3'6" for consistent accessibility.



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Secondary No Parking Sign

Select stops require the installation of a secondary no parking sign (on its own separate post). Secondary no parking signs are 12" x 18" signs with two mounting holes that are mounted on 10-ft tall, 2" square, fully-punched breakaway post with bolts and washers. Secondary no parking signs come with three different designs: no parking right, no parking left, no parking either direction. All secondary no parking signs shall display the "tow-away" symbol. Stop-specific instructions will be given by GRTC project manager(s) regarding which stops require secondary no parking signs and which design must be used.

All posts must be installed using either of the two installation methods detailed in the "Post Installation" section above depending on the ground surface/subsurface type at the installation site.

There are existing secondary no parking signs throughout the system that are older in style. These signs may have different sign dimensions and may be installed using an conventional steel "U-channel" post. In some cases GRTC will request the removal of these signs. All work requesting installations of secondary no parking signs will utilize the signs, hardware, and installations mentioned above.

Post & Sign Component Replacement Due to Damage

In the event of a car strike or any other incident that causes structural damage to a post, GRTC may request a post be replaced. If there is no structural damage to the post anchor base or the plate mount, only the post must be replaced.

If there is structural damage to the post anchor base or the plate mount, the damaged items must be removed and returned to GRTC and collected for future recycling or disposal. A new post anchor base or plate mount must be installed following either of the two installation methods detailed in the "Post Installation" section above depending on the ground surface/subsurface type of the installation site.

To replace the post, the corner bolt must be removed and the post removed from the anchor base or plate mount. Sign components without damage must be removed from the post and returned to GRTC to be used in future sign installations. The post and sign components that are damaged must be returned to GRTC and collected for future recycling or disposal. New sign components must be installed to replace damaged components.



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Sign Component Replacement

As bus routes and service levels change, bus stop sign components may need to be removed or replaced. This may require the removal, addition, and reorganizing of one or more sign components on an existing post. Sign components and hardware without damage must be removed from the post and returned to GRTC to be used in future sign installations. Sign components that are damaged must be returned to GRTC and collected for future recycling or disposal.

Sign Removal

GRTC may request the removal of a basic bus stop sign must the stop no longer be in service. To remove the post, the corner bolt must be removed and the post removed from the anchor base or plate mount.

Plate mounts must be removed from the concrete/sidewalk. All plate mount removals must result in a level surface that is clear of any potential tripping hazards.

Post anchor bases and concrete footers must be fully removed. Top soil must be used to fill the resulting hole and each 6 inch left must be tamped. All post anchor base removals must result in a level surface that is clear of any potential tripping hazards.

Sign components, hardware, posts, anchor bases, and plate mounts without damage must be returned to GRTC to be used in future sign installations. Sign components, hardware, posts, anchor bases, and plate mounts that are damaged must be returned to GRTC and collected for future recycling or disposal.

Maintenance of Sign Components

GRTC may request maintenance to one or multiple sign components in the event of vandalism or accidental damage occurs that is superficial in nature and does not impact the structural integrity of the sign. This includes but is not limited to removing paint, ink, paper flyers, stickers, tape, zip ties, wire etc. All maintenance must be invoiced at an hourly rate. Maintenance taking less than an hour must be rounded to nearest quarter-hour.

In the event that vandalism or accidental damage occurs which does impact the integrity of the sign, GRTC may request the replacement of any sign components.



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BRT PULSE STATION REPAIR

BACKGROUND:

In 2018 GRTC launched the BRT Pulse Project consisting in a 7.6-mile alignment along Main Street between Rocketts Landing and Main Street Station, and along Broad Street between Main Street Station and Willow Lawn and includes 26 Station platform locations (10 center running in median of Broad Street and 16 curbside). The platforms consist of any items that are in need of repairs from time to time.



Brick station repairs

GRTC is seeking a competent, qualified, and experienced contractor to complete various brick repairs/replacement services at the 26 BRT Pulse stations.

All permits required are the responsibility of the contractor. Work is to be completed once materials have been ordered and received.

The station shall not be closed for bus traffic use at any time for any related construction repair activity unless pre-approved by GRTC's Project Manager and coordinated with the transportation department.

The contractor is responsible for keeping the site clean and orderly, including cleaning of any trash, materials, debris, etc. generated by the contractor's activities or the activities of its employees. All waste disposals will be the responsibility of the contractor.



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Specification

- Re-build brick wall to match original height. Move replacement so alignments are in towards ramp by $\frac{3}{4}$ to 1". Use same color brick as original, same color mortar, and same bond as existing.
- This re-alignment may require extending the brick wall joint from 5 to 6 inches and will require a new, longer coping cap.
- Remove damaged brick section of wing-wall down pass flashing. Remove damaged flashing.
- Top by setting pre-cast concrete coping in place atop wall.
- Remove and keep for re-installation the pre-cast coping if possible.
- Clean paint off coping
- Existing handrail to remain
- Clean and leave in a finished, professional appearance.

Materials

- Brick: Pine Hall Old colony m/s
- Mortar for brick: Type N masonry cement
- Joint reinforcing: 9 x 9-gauge ladder, HDG
- Flashing: 26-gauge stainless steel flashing

Glass Replacement

GRTC is seeking a competent, qualified, and experienced contractor to complete replacement glass services at the 26 BRT Pulse stations. This will include the removal of broken glass, placing a temporary plexiglass panel in place for safety, and installation of the new glass and disposal of damaged glass. The contractor will be responsible for handling and keeping all hardware until the new glass has been installed.

Specifications

The individual glass all has 9/16" tempered laminated glass panel with a graphic map enclosed. The contractor is to verify glazing panel size will fit into steel frame at panel location. Glass is 9/16" clear tempered laminated $\frac{1}{4}$ " clear temp. - .05 polyurethane interlayer – $\frac{1}{4}$ " clear



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tempered. All exposed edges are to be polished. The contractor is to field verify all dimensions prior to release for glass fabrication.

The affected panels and maps may also have a station QR code. If so, the QR code on the graphic map is required to be included and tested for proper operation prior to glass installation. This shall be verified by the fabricators and approved by the GRTC PM. The map artwork is to be duplicated as per GRTC artwork with layout to match existing as close as possible in layout, QR codes, and color.. A station elevation indicating which panels are to be replaced, cut sheets on glass and location of holes for fitting the spiders to glass, backscreen graphic artwork, and cut sheets for the SADEV spiders is to be provided.

The individual glass panels are attached to the steel structures by use of a point supported structural glass hardware manufacture by SADEV Architectural Glass System. Install contractor is to reuse as many of the spider castings and swivel fittings as possible. Several of the spider clips may need to be replaced. The install Contractor is to assess damage to the spider castings and swivel fittings and report to GRTC the condition and if they need to be replaced. That system is the Sadev Classic S3105 Fin Plate Spider castings and Sadev Classic R1006 Swivel Fittings, with brushed #4 stainless steel finish. The use of stainless-steel shims is permitted. Installer is to maintain a nominal gap between the steel and glass of 1-1/4" to 1-1/2".

Handrail Repair/Replacement

GRTC is seeking a competent, qualified, and experienced contractor to complete various handrail repairs and/or replacements at the 26 Pulse BRT stations. This will include the removal and disposal of existing damaged and/or unneeded handrails, installation of new handrail components, and connection to existing walls and/or rails.

Specifications

Where portions of existing handrails are to remain, contractor shall match existing height, color, diameter, and post spacing. Existing sections of damaged rail shall be cut and ground smooth. Rail connections shall be welded and ground smooth, shall be structurally sound for intended use, and free from sharp edges. Rail section in its entirety shall be repainted for consistent color and finish for entire run.

Handrails shall consist of 1½" diameter painted steel pipe. Color shall match existing rail color as best as possible and be painted with a product designed for proper adhesion to rail surface.



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Rails shall be affixed to station surface using painted plate welded to pipe and bolt-mounted using 1/2" diameter bolts to surface. Base plate shall be shimmed to level and grouted to meet surface using non-shrink grout for gapless connection to surface.

New handrails shall contain vertical posts spaced 5' o.c. maximum and set at height to match existing rails at that specific station.

The contractor is responsible for keeping the site clean and orderly, including cleaning of any trash, materials, debris, etc. generated by the contractor's activities or the activities of its employees. Contractor shall protect surrounding surfaces from paint splatter and be responsible for cleaning all unintended spills/painting on surrounding surfaces. All waste disposals will be the responsibility of the contractor.