



Department of Public Works
Engineering Division
Jim Wolfe, City Engineer
City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4751
Fax: (608) 264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

Deputy City Engineer
Gregory T. Fries, P.E.
Principal Architect 2
Bryan Cooper, AIA
Principal Engineer 2
John S. Fahrney, P.E.
Chris Petykowski, P.E.
Janet Schmidt, P.E.
Principal Engineer 1
Christina M. Bachmann, P.E.
Mark D. Moder, P.E.
James M. Wolfe, P.E.
Financial Manager
Steven B. Danner-Rivers

November 30, 2022

NOTICE OF ADDENDUM
ADDENDUM NO. 4
CONTRACT NO. 8716

EAST-WEST BUS RAPID TRANSIT IMPROVEMENT

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

Summary of modifications includes:

- Detail adjustments (curb details, curb type, etc.)
- Enhanced information per contractor requests

SPECIFICATIONS:

REMOVE: CONCRETE CURB & GUTTER 18-INCH TYPE A SPECIAL, ITEM SPV.0090.002 FROM ARTICLE 10-9.

REMOVE: ARTICLE 10-18 CONCRETE CURB & GUTTER 24-INCH TYPE A, SPV.0090.018.

REVISE: ARTICLE 11-5 REINFORCED CONCRETE PLATFORM TYPE ##, ITEM SPV.0060.4##. SECTION B AND C AS FOLLOWS

B Materials

The detectable warning fields on the platform shall be natural patina. Furnish the detectable warning fields per standard spec 602.2.

C Construction

Construct the detectable warning fields and the direction tile per standard spec 602.3.2.3.

REVISE: ARTICLE 14-8 METHYL METHACRYLATE RED, ITEM SPV.0165.101 SECTION B.3 SKID RESISTANCE AS FOLLOWS

B.3 Skid Resistance

The aggregate used in the Methyl-Methacrylate coating shall have a minimum hardness of 7.0 (Mohs scale). Upon application the material shall provide a minimum skid resistance value of 60 BPN when tested according to ASTM E 303 or minimum value of 40 when tested according to ASTM E 274.

Use aggregate per the manufacture's recommendation.

ADD: The following specification sections are issued for the first time with this Addendum and are included as part of the Architectural Special Provisions Package 1.

Section 071416 Cold Fluid-Applied Waterproofing

Section 101426 Post and Panel-Pylon Signage

Section 321726 Tactile Warning Surfacing

PLANS:

Plan Set 1

SHEET O-5 (REV 11/22/2022): Modified to remove solar panels from A4 platforms in table.

SHEET CD-2 (REV 11/28/2022): Modified to include a note for clarification.

SHEET CD-10 (REV 11/23/2022): Removed curb detail.

SHEET CD-10A (NEW 11/23/2022): Inserted new sheet with curb details and reference table.

SHEET CD-12 (REV 11/28/2022): Revised detail.

Plan Set 2

SHEET P-0W (REV 11/23/2022): Added gutter transition callouts.

SHEET P-13W (REV 11/23/2022): Revised curb type.

SHEET P-14W (REV 11/23/2022): Revised curb type.

SHEET P-15W (REV 11/23/2022): Revised curb type.

SHEET P-20W (REV 11/22/2022): Modified to include more station/offset information on proposed work and to change curb type.

SHEET P20-E (REV 11/28/2022): Modified to add pavement labels and modify sidewalk labels for additional clarity.

SHEET P21-E (REV 11/28/2022): Modified to add sidewalk labels for additional clarity.

Plan Set 10

SHEET S-S301 (REV 11/30/2022): Revised detail 2.

SHEET S-S401 (REV 11/30/2022): Revised details 1, 2, and 4.

Plan Set 11

SHEET MQ-16 (REV 11/29/2022): Revised quantities.

SHEET MQ-18 (REV 11/29/2022): Revised quantities.

SHEET MQ-19 (REV 11/29/2022): Revised quantities.

SHEET MQ-21 (REV 11/29/2022): Revised quantities.

SHEET MQ-23 (REV 11/29/2022): Revised quantities.

SHEET MQ-25 (REV 11/28/2022): Revised quantities.

SHEET MQ-26 (REV 11/28/2022): Revised quantities.

SHEET MQ-27 (REV 11/28/2022): Revised quantities.

SHEET MQ-28 (REV 11/28/2022): Revised quantities.

SHEET MQ-29 (REV 11/29/2022): Revised quantities.

SHEET MQ-31 (REV 11/29/2022): Revised quantities.

SHEET MQ-35 (REV 11/28/2022): Revised quantities.

SHEET MQ-36 (REV 11/28/2022): Revised quantities.

SHEET MQ18-E (REV 11/23/2022): Revised quantities. Shelter Photovoltaic System removed.

SHEET MQ-42 (REV 11/29/2022): Revised quantities.

PROPOSAL:

Summary of changes to the bid items and quantities are summarized in the table below. Bidders shall reference the complete set of bid items found on Bid Express.

ACTION	ITEM NO.	DESCRIPTION	UNITS	QUANTITY CHANGE
INCREASE QUANTITY	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	+3
INCREASE QUANTITY	305.0130	Base Aggregate Dense 3-Inch	TON	+3
INCREASE QUANTITY	415.4100	Concrete Pavement Joint Filling	SY	+712
DECREASE QUANTITY	520.8000	Concrete Collars for Pipe	EACH	-1
DECREASE QUANTITY	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	-8
INCREASE QUANTITY	611.0535	Manhole Covers Type J-Special	EACH	+2
DECREASE QUANTITY	611.0624	Inlet Covers Type H	EACH	-1
INCREASE QUANTITY	611.0639	Inlet Covers Type H-S	EACH	+4
DECREASE QUANTITY	611.8110	Adjusting Manhole Covers	EACH	-6
INCREASE QUANTITY	611.8115	Adjusting Inlet Covers	EACH	+2
INCREASE QUANTITY	624.0100	Water	MGAL	+0.1
DECREASE QUANTITY	SPV.0060.316	Shelter Photovoltaic System	EACH	-1

ACTION	ITEM NO.	DESCRIPTION	UNITS	QUANTITY CHANGE
INCREASE QUANTITY	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	+20
DELETED ITEM	SPV.0090.002	Concrete Curb & Gutter 18-Inch Type A Special	LF	-90
INCREASE QUANTITY	SPV.0090.003	Concrete Curb & Gutter 24-Inch Type H Special	LF	+439
DELETED ITEM	SPV.0090.018	Concrete Curb & Gutter 24-Inch Type A	LF	-369
INCREASE QUANTITY	SPV.0165.401	Concrete Sloped Walkway	SF	+140


Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

<http://www.bidexpress.com>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

Sincerely,



 _____ for
 Jim Wolfe
 City Engineer

JMW:cmb

Addendum 4: Requests for Information

Q: The special provisions [for Red Methyl Methacrylate] state that concrete surfaces shall be shotblasted in addition to any other methods of preparation. I have not seen this stated before in any manufacturer's installation methods. Is this something new that the City is requiring?

A: A conclusion of a study of various red colored pavement alternatives is that existing concrete shall be shotblast prior to primer applications to be able to achieve the desired product. Shotblasting is required for the BRT project where applying to existing concrete surfaces. Shotblasting is not required before applying MMA to concrete that is poured with the BRT project.

Q: I think there's a discrepancy in the Project Overview on sheet O-5. There is an A4 shelter (east Washington Ave At Mendota St) that calls for solar. A4 is a smaller canopy and the drawings don't show solar included. Can you verify that solar is not included at this canopy? I show a total of 36 canopies with solar panels (not counting that A4)

A: Correct, no solar on A4.

Q: Please provide a material spec Material Spec for Waterproofing Planters; specification for the Directional Tile for Shelters;

A: Refer to note on sheet A400 for cold fluid applied waterproofing on inside of the planter wall. See updated specification for the directional tile provided with Addendum 4.

Q: Please provide details for: Concrete Curb & Gutter 30-Inch Type A Special, Concrete Curb & Gutter 18-Inch Type A Special, Concrete Curb & Gutter 24-Inch Type H Special, Concrete Curb & Gutter Integral 24-Inch Special, SPV 0060.448 Reinforced Concrete Platform without a Canopy, Concrete Curb Extension 6-in.

A: See updated pdfs provided with Addendum 4.

Q: We are looking for clarification on the finish on the steel for the shelters. They are calling for a mix of AESS (the coluk and perimeter) and hot dipped galvanized (where not exposed). Our suppliers approach is to prefabricate and make the structure in fully welded units, it's not practical to mix the finish. There is a section in the High performance coatings spec (3.6 B) that addresses painting over galvanized. This is possible, but won't give them the level of finish they would expect out of an AESS category 2 or 3. Our assumption is that any exposed steel is painted and not galvanized, and that any non-exposed steel can be a standard 2 coat painted finish.

A: All structural steel is to be galvanized. In addition, paint all exposed steel per specification section 099600 FL – High-Performance Coatings. Galvanized AESS is called out as 051213.A in the plans.

Q: I am requesting additional information on the Sun Prairie Park and Ride building (restroom and electrical room). The plan set does not seem to have all the drawings compared to the Junction Rd. Park and Ride. I am seeking drawings and depictions for Sun Prairie like the following from Junction Park and Ride; E1-Q, E-001, E004, E005.

A: Junction Road and Sun Prairie restrooms/electrical rooms are intended to be the same buildings.

Q: In looking at the drawings for the Junction Park and Ride "E001", they show Tankless waters heaters, Electric Wall heaters, and Electronic faucet valves with transformer. I am requesting information on whom should supply these pieces of equipment, for the comfort rooms?

A: Contractor to provide services for the restroom buildings. The payment for the restroom buildings includes the mechanical, electrical, and plumbing systems per Article 12-1 Section E Payment. These systems include tankless water heaters, electric wall heaters, exhaust fans, a ductless air conditioning unit, and electronic faucet valves with transformer.

Q: For the MONOLITHIC SIGNAGE, please provide specification. How does it anchor? Is it lit, and if so, what type of lighting? What is the finish (galvanized? painted?)

A: Refer to added spec section: 101426 FL - Post and Panel-Pylon Signage

Q: For the TRASH CANS, please provide specification, supplier, color, dual stream?, dome lid?

A: Per the City of Madison trash cans at the shelters should be 32-38 gallon commercial with bonnet lid:

<https://www.treetopproducts.com/catalog/product/view/id/97132/s/comfort-series-receptacles/>

[https://www.uline.com/Product/Detail/H-5171BL/Outdoor-Trash-Cans/Courtyard-Trash-Can-Bonnet-Lid-36-Gallon-Black?pricode=WA9474&gadtype=pla&id=H-5171BL&gclid=Cj0KCQiA-](https://www.uline.com/Product/Detail/H-5171BL/Outdoor-Trash-Cans/Courtyard-Trash-Can-Bonnet-Lid-36-Gallon-Black?pricode=WA9474&gadtype=pla&id=H-5171BL&gclid=Cj0KCQiA-JacBhC0ARIsAlxybyOdn5fZ_Gu4STfh9xbAZPjO64iG8kxJVfqXiCXVwTKvoicopy0kTEAaAkeDEALw_wcB)

[JacBhC0ARIsAlxybyOdn5fZ_Gu4STfh9xbAZPjO64iG8kxJVfqXiCXVwTKvoicopy0kTEAaAkeDEALw_wcB](https://www.uline.com/Product/Detail/H-5171BL/Outdoor-Trash-Cans/Courtyard-Trash-Can-Bonnet-Lid-36-Gallon-Black?pricode=WA9474&gadtype=pla&id=H-5171BL&gclid=Cj0KCQiA-JacBhC0ARIsAlxybyOdn5fZ_Gu4STfh9xbAZPjO64iG8kxJVfqXiCXVwTKvoicopy0kTEAaAkeDEALw_wcB)

<https://alpineindustries.com/product/alpine-industries-outdoor-metal-slatted-trash-receptacle-with-rain-bonnet-lid-38-gallon/>

Per the City of Madison trash cans at the comfort station restrooms should be:

<https://www.zoro.com/rubbermaid-15-gal-plastic-round-trash-can-beige-fg816088beig/i/G0062921/>

<https://www.zoro.com/rubbermaid-commercial-15-gal-round-trash-can-fg816088beig/i/G4072693/>

<https://www.goavm.com/marshal-classic-container-round-polyethylene-15-gal-beige-ep-5601530.aspx>

Q: For the PEDESTRIAN RAILING, please confirm all pedestrian railing is to be stainless steel, please clarify embedded sleeve material; specification calls out stainless steel, plans call out plastic...if plastic, sch 40 pvc pipe acceptable?

A: All pedestrian railing is to be stainless steel including embedded sleeve material.

Q: SHELTER QUESTIONS: Roof drain – please provide a specification/manufacturer

A: Zurn Lateral Z125-85-90, JOSAM 24500-90, JR Smith 1025 Roof Drain or approved equal.

Q: SHELTER QUESTIONS: Per typ. Plan sheet notes, please confirm finish on steel as interpreted below...under high performance coating spec, a color selection is listed, please confirm this color “Match RAL 9011 Graphite Black” is to be used for all painted steel:

- All steel 051200.A to be prime painted only; no galvanizing and no final paint needed
- all steel 051200.B to be galvanized only; no paint needed
- all steel 051213.A Please confirm that the AESS Portal Frames and HSS Tubes are to be primed only and painted black (no galvanizing).

A: All structural steel is to be galvanized. In addition, paint all exposed steel per specification section 099600 FL – High-Performance Coatings. Galvanized AESS is called out as 051213.A in the plans. RAL 9011 Graphite Black is confirmed.

Q: Is there a 3d model for the structural steel?

A: No, only 2D CAD drawings for structural steel.

Q: The plans and specs to not call out the color of the Platform Detectable Warning Fields or Directional Warning Fields.

A: Natural patina.

Q: Bid Item C1 Concrete Sidewalk 7 Inch. The only reference I see in the plans is sheet CD-20. This shows the thickened edge where the C1 sidewalk hits the structural slab. Is that the only difference between C1 Sidewalk and regular 7” Sidewalk?. I assume all drilled tie bars will be paid under that item, and there does not appear to be any reinforcement in that section.

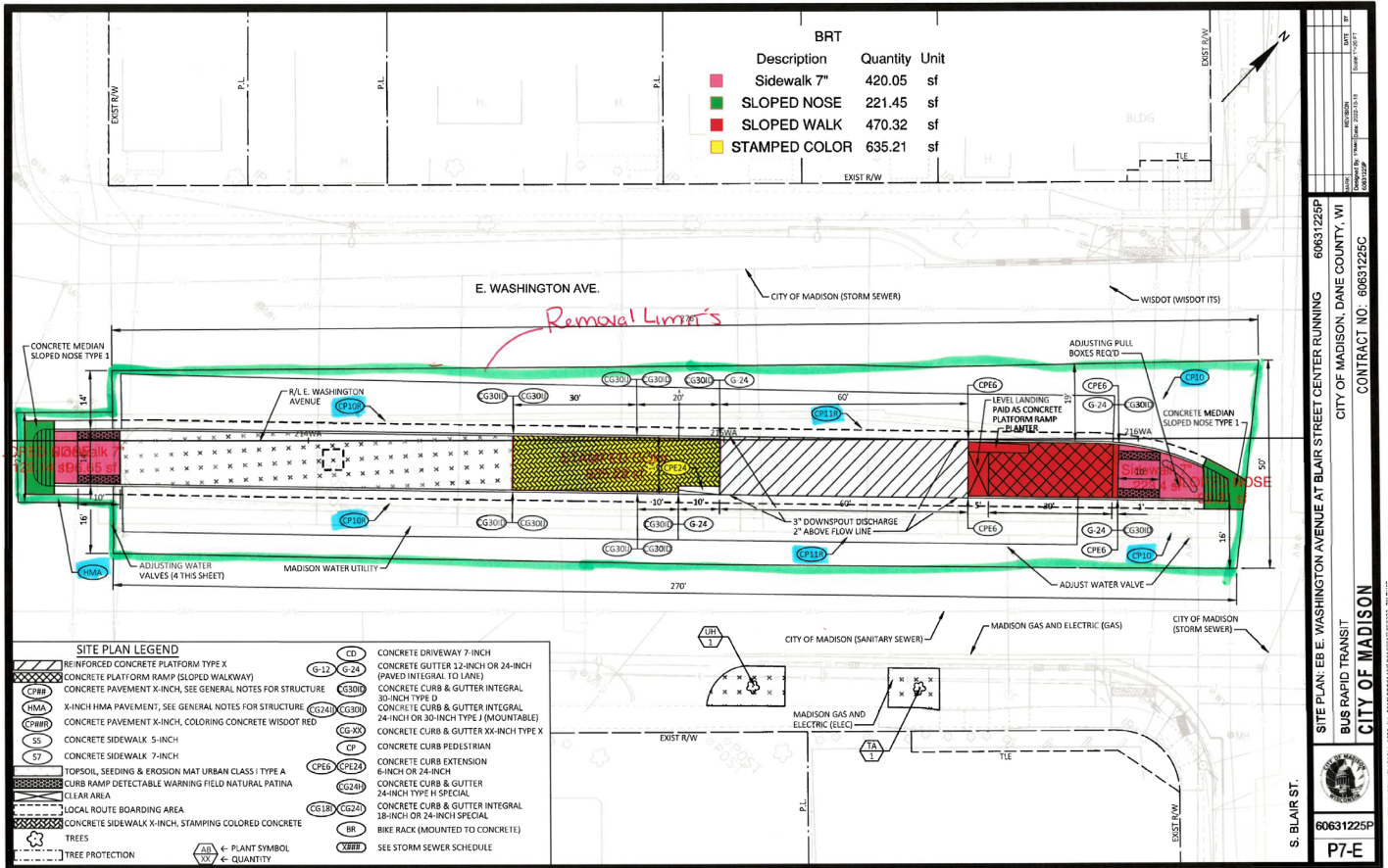
A: The C1 sidewalk item is a specific gradation for State Street (WB & EB) and Capitol Square (Martin Luther King Jr EB) locations. See article 10-20 for the reference to the City’s standard spec for requirements.

The referenced detail only applies to WB State Street at Gorham Street where there is existing structural slab in the sidewalk which requires the thickened edge and tie bars. Drilled tie bars to be paid separately and are quantified as such.

Q: The planters appear to sit on top of the Concrete Platform ramp. Does the area under the planters get paid as Concrete Platform? If not, what is the section requirement.

A: Yes.

For five questions below, refer to this drawing:



Q: Can you confirm that the green line is removal limits?

A: Yes. Intent is to remove to the nearest joint line. The green line represents the removal limits corresponding to the as-surveyed joint lines before the current construction project ongoing at Blair Street.

Q: Between removal limits and curbs, where are the dividing lines between HMA patch, CPR10, CPR11 and CP10?

A: HMA is at the west end where there is existing asphalt (west of points BSC79 & BSC80 shown on the Grading Plan G7-E). Purpose is to set the forms for the new curb as the median is being extended. The red pavement is the entire "bus" lane from crosswalk to crosswalk/stop bar (nearest joint to referenced marking). This represents between BSC17 and BSC81 on the grading plans for EB; see Grading Plan G7-E for similar points used to denote WB. The 11" concrete pavement is quantified from the eastern crosswalk/stop bar to the end of the concrete platform extension in the bus lane on both sides of the station platform. All other roadway concrete pavement is 10" concrete pavement.

Q: Is the area in red all paid as Concrete Platform Ramp (Sloped Walkway)?

A: Yes.

Q: Is the area in Pink all paid as sidewalk 7"?

A: Yes.

Q: Is the green all Sloped Nose?

A: Yes.

Q: Various clarification requests on materials and jointing related to Mendota Street WB and the Mendota Street connector.

A: These clarifications are provided in the Addendum 4, see updated sheet CD-2, P20-E, and P21-E.

Q: Please provide a spec for the Continuous Felt Bond Breaker between the Topping Slab and Foundation Slab at each shelter.

A: Provide 30# asphalt-saturated organic felt, non-perforated, or approved equal.

Q: Is GEOTEX® 1341NH polypropylene, staple fiber, needle-punched nonwoven geotextile acceptable for the breaker bond?

A: Yes.

Q: The current closing date is xxx. We would request a 2 week extension.

A: The closing date referenced in the question was incorrect, the actual bid deadline is Dec 6, 2022 at 2:00 pm Central Time. There will not be an extension at this time.

Q: Are the roofs in the shelters intended to be prefabricated and delivered or fabricated on site?

A: It is the contractor's determination on how best to construct the shelters as long as it meets the plans and specifications.

Q: The roof framing plans for all the shelters are contained in Drawings S-S200 to S-S204 but the A7 shelter is not listed on any roof framing plan sheets, can you explain that?

A: Use the SHELTER TYPES A1, A2 & A5 ROOF FRAMING PLAN detail on sheet S-S200.

Q: Will the mounting of the RTI signs and hanging brackets fall under the scope of the shelter supplier or the RTI sign manufacturer? Will these signs and brackets be free issued?

A: Sign manufacturer will provide and install the brackets and signs.

Q: Outside the shelters there will be a "Station Name" sign, labelled as Monolith Signage. Please confirm if this is a halo lighted sign and where we can find the details on its construction.

A: Additional details and specifications are included for this item. See insert page number and specs.

Q: At the shelter the ramp and stair railings are called out as stainless steel, however the perimeter railings on the platforms are called out on page 55 of Appendix C as 2" x 4" powder coated rectangular carbon steel tube post and rail. In order to provide consistency and to meet the below the roof AES C-3 paint specifications, would the agency consider allowing those railings to be stainless steel?

A: The Campus Railing is specific to the requirements of the University to match their existing product and based on experience with railing materials. The powder coated tubes are required.

Q: Would a fabricated alternative to the basis of design bench product that requires a cast aluminum be acceptable?

A: Cast aluminum is not acceptable.

Q: Would the agency consider any of the leaning rails and bench options in the attached document as approved equals to the basis of designs specified in the bid?

A: No, these do not meet the design intent.

Q: Can you please provide details on the trash cans?

A: Per the City of Madison trash cans at the shelters should be 32-38 gallon commercial with bonnet lid:
<https://www.treetopproducts.com/catalog/product/view/id/97132/s/comfort-series-receptacles/>

https://www.uline.com/Product/Detail/H-5171BL/Outdoor-Trash-Cans/Courtyard-Trash-Can-Bonnet-Lid-36-Gallon-Black?pricode=WA9474&gadtype=pla&id=H-5171BL&gclid=Cj0KCCQiA-JacBhC0ARIsAlxybyOdn5fZ_Gu4STfh9xbAZPjO64iG8kxJVfqXiCXVwTKvoicopy0kTEAaAkeDEALw_wcB

<https://alpineindustries.com/product/alpine-industries-outdoor-metal-slatted-trash-receptacle-with-rain-bonnet-lid-38-gallon/>

Per the City of Madison trash cans at the comfort station restrooms should be:

<https://www.zoro.com/rubbermaid-15-gal-plastic-round-trash-can-beige-fg816088beig/i/G0062921/>

<https://www.zoro.com/rubbermaid-commercial-15-gal-round-trash-can-fg816088beig/i/G4072693/>

<https://www.goavm.com/marshal-classic-container-round-polyethylene-15-gal-beige-ep-5601530.aspx>

Q: The roof flashing may not come pre-coated in the specified powder coat. Are the flashings to be made out of sheet metal or coiled material? What are the minimum lengths allowable for each piece?

A: See Section 076200 "Sheet Metal Flashing and Trim."

Q: The overflow drain with heat trays on each shelter – is this part of the Alternative Snow Melt System or a requirement with the shelters?

A: Standard shelter.

Q: The 12" x 6" hollow tub structure that makes up the roof perimeters have varying wall thicknesses across the different shelter types. Can that be standardized across all the roofs?

A: Contractor needs to meet or exceed minimum thickness in plans.

Q: Please confirm whether the shelter manufacturer is required to have a minimum number of custom BRT shelter projects in order to be qualified as a supplier on this project.

A: There is not a minimum number of Custom BRT shelter projects needed to be qualified.

Q: The windscreen glass all gets a print on the EVA lamination interlayer. When will a file be made available for this print? Also will it be the exact same print used on every varying width of glass?

A: Contractor is to provide file based on the specifications, refer to Section 088000 – GLAZING. The pattern is to be the same on every varying width of glass.

Q: There is a callout for a speaker adjacent to the Real Time Information display. Are there onboard speakers in the real time information display that might make the additional speaker unnecessary, or do we need to plan for that speaker to be mounted?

A: Speakers that are to be used for public announcements are provided and installed by others are necessary and will need to be mounted by others to the canopy.

Q: Can you please confirm that 8.5 on the Mohs scale is the standard that the aggregate must meet? Or if there is more current spec that would be acceptable to use?

A: 7.0 on the Mohs scale is acceptable.

Q: Is there additional information that can be provided (such as the particle size chart or gradation description) that would help suppliers and contractors know with confidence they using material that meets the spec of this project?

A: Provide aggregate that meets the manufacture's recommendations.

Q: I find a MQ44BS in the addendum plans, but the WORD doc says there should be a MQ44AB (with no specific mention of MQ44BS).

Seems like MQ44AS and MQ44BS are the 2-part replacement for MQ44S.

So my question is - Is there a MQ44AB somewhere that didn't make it to the plan set or is MQ44AB really MQ44BS?

A: There is no MQAB that exists. The letter should have said MQ-44BS.

Q: Various clarification requests on materials and jointing related to Mendota Street WB and the Mendota Street connector.

A: These clarifications are provided in the Addendum 4, see updated sheet CD-2, P20-E, and P21-E.