

CAMINO REAL REGIONAL MOBILITY AUTHORITY BOARD RESOLUTION

WHEREAS, the Camino Real Regional Mobility Authority (CRRMA) entered into an agreement dated October 15, 2015 (Agreement) with the Brookville Equipment Corporation (Brookville) for the remanufacture of six (6) PCC vehicles (PCC Cars) for the El Paso Streetcar Project being developed by the CRRMA;

WHEREAS, the parties previously amended the Agreement via three separate contract amendments to address various issues, including the abatement of lead paint, change in the type of windows planned, correct errors identified in the Agreement and purchase of additional special tools and equipment;

WHEREAS, the parties now desire to make additional changes to the Agreement in order to add automatic passenger counters, include additional special tools and test equipment and permit the use of different truck frames than originally contemplated; and

WHEREAS, the parties therefore desire to enter into a fourth amendment to the Agreement to incorporate the items identified above.

NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:

THAT the Executive Director is hereby authorized to execute Amendment No. 04 to the Rail Vehicle Contract for Remanufacture of PCC Cars with Brookville Equipment Corporation, including any additional documents or materials as may be necessary, in order to add automatic vehicle counters, add special tools and test equipment and permit the use of certain types of trucks to the terms of the referenced Contract.

PASSED AND APPROVED THIS 13TH DAY OF FEBRUARY 2019.

**CAMINO REAL REGIONAL MOBILITY
AUTHORITY**

ATTEST:

Susan A. Melendez, Chair

Joe R. Fernandez
Board Secretary

APPROVED AS TO CONTENT:

Raymond L. Telles
Executive Director

AMENDMENT NO. 4
to
RAIL VEHICLE CONTRACT FOR REMANUFACTURE
OF PCC CARS

This Amendment No. 4 (the "Amendment") is entered into as of this _____ day of _____, 2019 by and between the Camino Real Regional Mobility Authority ("CRRMA") and Brookville Equipment Corporation ("BEC") for the purpose of modifying the terms of that certain Rail Vehicle Contract for Remanufacture of PCC Cars dated October 15, 2015 between CRRMA and BEC (the "PCC Contract"), as amended in April 2016 by Amendment No. 1, in January 2017 by Amendment No. 2, and in June 2018 by Amendment No. 3.

RECITALS:

- A. The parties previously entered into the PCC Contract for the purpose of defining the terms by which BEC would remanufacture and upgrade certain rail vehicles related to the El Paso Street Car Project for a total Contract Price of \$18,794,265.00.
- B. In April 2016, CRRMA and BEC entered into Amendment No. 1, which made certain changes to the terms of the PCC Contract in order to (1) provide additional compensation to BEC related to the abatement of lead paint found on the PCC Cars, (2) provide for openable/lockable passenger windows in certain locations of the PCC Cars and additional compensation to BEC related thereto, and (3) correct errors in various provisions of the PCC Contract. Amendment No. 1 increased the total PCC Contract Price to \$18,872,137.75.
- C. In January 2017, CRRMA and BEC entered into Amendment No. 2, which made certain additional changes to the scope of the PCC Contract, and provided additional compensation to BEC related to 1) truck lifting spreader bar, 2) sun shades, 3) roller curtain destination signs 4) event recorders and 5) special tools and test equipment. As a result of Amendment No. 2, the total PCC Contract Price increased to \$19,061,241.03.
- D. In June 2018, CRRMA and BEC entered into Amendment No. 3 to add to the list of special tools and equipment under the PCC Contract in return for additional compensation to BEC. As a result of Amendment No. 3, the total PCC Contract Price increased to \$19,291,195.74.

- E. CRRMA and BEC now desire to make certain changes to the terms of the PCC Contract related to 1) additional Automatic Passenger Counters, 2) special tools and test equipment, and 3) truck frames and bolsters in return for additional compensation to BEC as provided herein.

AGREEMENT

1. Definition of Terms. All terms used in this Amendment and not otherwise defined herein shall have the meanings assigned to such terms in the PCC Contract.

2. Automatic Passenger Counters. BEC agrees to provide three (3) car sets of integrated additional Automatic Passenger Counters (for a total of six cars) in return for an aggregate increase in the PCC Contract Price of \$16,305.00. There shall be no schedule impacts associated with the provision of additional Automatic Passenger Counters.

In connection with BEC's provision of additional Automatic Passenger Counters, Technical Specifications of the PCC Contract, Section 5 – Communications, 5.2.8(1) is hereby amended as follows (underline signifies added text and strikethrough signifies deleted text).

- (1) ~~Three~~ Six PCCs, ~~selected by CRRMA,~~ shall be equipped with on-board Automatic Passenger Counters (APC) to improve operational efficiencies by providing highly accurate passenger counts that shall support standard J1708 interface with the IVLU. ~~The remaining vehicles shall be wired to accommodate future installation of the APC equipment.~~

3. Special Tools, Test Equipment and Spare Parts. In lieu of certain currently required propulsion test equipment, BEC agrees to provide (a) one additional propulsion chopper unit, (b) one ATS developed hand held programmer, and (c) one TECU assembly, ready for installation, made up of a quantity of one PS/CPU Model 24V and a quantity of two I/O Modules in return for no additional increase in the PCC Contract Price. There shall be no schedule impacts associated with the provision of the above.

The Attached "Special Tools and Test Equipment Matrix, Revision 2" hereby replaces the version previously included as "Special Tools and Test Equipment Matrix, Revision 1" of the PCC Contract, as amended (underline signifies added text and strikethrough signifies deleted text).

The Attached "Form III – Schedule of Prices, Schedule B – Part 1 Spare Parts, Rev 1" hereby replaces the version of the matrix previously included as "FORM III – SCHEDULE OF PRICES, SCHEDULE B – PART 1 SPARE PARTS" of the PCC Contract (underline signifies added text and strikethrough signifies deleted text).

4. Use of Post War Era Truck Frames and Bolsters. The parties agree to certain changes to the PCC Contract described below with respect to the use of post war era truck frames and bolsters. There shall be no increase in the PCC Contract Price and no schedule impacts related to such changes.

Technical Specifications, first paragraph under 9.3.1 General is hereby amended as follows (underline signifies added text and strikethrough signifies deleted text):

9.3.1 GENERAL

All truck frames, bolsters and swing links shall be carefully inspected for cracks by visual, magnetic particle, dye penetrant, ultra sonic, and other non-destructive testing methods as approved by CRRMA. Magnetic particle inspection (using a no-yoke probe only) shall be in accordance with ASTM E 709. Dye penetrant inspection shall be in accordance with ASTM E 165. The inspection process and methodology shall be presented to CRRMA for approval. All trucks shall also be inspected for any out-of-tram condition. The truck shall be a true rectangle, as measured from identically positioned gauge marks at each corner of the frame, within 0.0626 inch between the marks on each side or between diagonally opposite marks. The Contractor shall either use the existing pre-war style truck frames and bolsters, or propose for the CRRMA's consideration, the use of interchangeable post-war style truck frames and bolsters. All truck frames shall be identical in configuration and shall be interchangeable between cars of the fleet without restrictions or the need for any modifications. If post-war style truck frames are used, all of the existing pre-war truck frames shall be returned to the CRRMA/SunMetro.

5. Increase in Total Contract Price; Payment for Amendment No. 4 Scope Changes. The total PCC Contract Price of \$19,291,195.74 (following Amendment No. 3) shall be increased by \$16,305.00 to a total of \$19,307,500.74. However, the Milestone Payments and the related percentage completion amounts contained in the Milestone Payment Schedule in Section 5.71 of CP-5-Special Provisions shall continue to be based on the original PCC Contract Price of \$18,794,265. Payment of the total aggregate increase of \$16,305.00 in the PCC Contract Price as a result of this Amendment No. 4 shall be payable as follows: 100% upon written evidence from BEC to CRRMA demonstrating completion of all work related to this Amendment No. 4.

6. No Other Change to PCC Contract Terms. Except as otherwise set forth herein, all terms and conditions of the PCC Contract shall remain in full force and effect.

[SIGNATURES BEGIN ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have duly executed this Amendment No. 4 as of the day and year first written above.

Sworn to and Subscribed
before me this _____ day of _____,
2019

**CAMINO REAL REGIONAL MOBILITY
AUTHORITY**

Notary Public

By: _____
Raymond L. Telles
Executive Director

My commission expires: _____

Sworn to and Subscribed
before me this _____ day of _____,
2019

CONTRACTOR:
**BROOKVILLE EQUIPMENT CORPORATION, a
Pennsylvania corporation**

Notary Public

By: _____
Name: _____
Title: _____

My commission expires: _____

El Paso

SPECIAL TOOLS AND TEST EQUIPMENT - REVISION 2

ITEM	QUANTITY	DESCRIPTION	Quoted UNIT PRICE	TOTAL PRICE	Updated UNIT PRICE	QTY	Total	Notes/Details
1 CARBODY								
1	0 sets	Jacking pad interface blocks required to interface with the COEP portable jacks	\$563	\$0	0.00	0	0.00	No longer required as the El Paso carbody is not designed to receive a lifting device
2 WHEELCHAIR LIFT								
1	0 each	If required, lifting tool for removal and replacement of lift system	\$99	\$0	0.00	0	0.00	No longer required as the wheelchair lift selected for El Paso is removed from the bottom and any shop jack will work
2	0 each	Any special tools or devices needed to install or adjust the lift system	\$286	\$0	197.52	1	197.52	<ul style="list-style-type: none"> • Bridge plate height adjustment gauge • Roll stop adjustment tool
3 PASSENGER DOORS								
1	0 set	Obstruction detection & recycle obstruction gauge	\$352	\$0	352.00	1	352.00	See attached tab 2 picture of obstruction detection & recycle obstruction Overall dimensions 9.563 x 2.125 x 0.750
2	0 set	Jigs/fixtures, tools, special gauges, templates, and inspection tools, as applicable to install and adjust blinker doors	\$352	\$0	0.00	0	0.00	No longer required blinker doors as not bi-fold door and all adjustments can be made with general mechanics tool set
3	0 set	Jigs/fixtures, tools, special gauges, templates, and inspection tools, as applicable to install and adjust bi-fold doors	\$352	\$0	0.00	0	0.00	No longer required blinker doors as not bi-fold door and all adjustments can be made with general mechanics tool set
4 HEATING, VENTILATING AND AIR CONDITIONING								
1	0 set	Special tools associated with HVAC evacuation and reclamation including leak detector, pressure gauge, thermometer, charging scale, evacuation pump and evacuation pump accessories, refrigerant reclamation system	\$14,085	\$0	7,723.20	1	7,723.20	<ul style="list-style-type: none"> • HVAC refrigerant recover, recycle, recharge system system with connecting hoses. • Slimline Refrigerant scale • Electronic Leak Detector • Thermistor Vacuum gauge
2	0 each	Equipment and software required to allow COEP to interface, troubleshoot, download maintenance files, upload software and otherwise maintain all of the HVAC and heating systems on the car. May be included with the PTUs of Section 10.	\$7,775	\$0	0.00	0	0.00	Included in Section 10
3	0 each	Lifting jig that interfaces between the HVAC unit and the COEP overhead crane to remove and replace the HVAC roof unit	\$8,394	\$0	8,352.00	1	8,352.00	<ul style="list-style-type: none"> • Lifting Jig for use with overhead crain • Trolley Collapsible is a supporting devise for working on the bottom side of the unit. It will prevent the gasketing from being damaged.
5 GENERAL ELECTRICAL EQUIPMENT								
1	0 set	Battery water filling tools	Not Provided, Standard Tools	\$0	0.00	0	0.00	No longer required as the batteries are sealed; not serviceable
2	0 each	Equipment and software required to allow COEP to interface, troubleshoot, download maintenance files, upload software and otherwise maintain all of the auxiliary electrical systems on the car. May be included with the PTUs of Section 10.	Included in Section 10	\$0	0.00	0	0.00	Included in Section 10
6 PROPULSION SYSTEM AND CONTROL								
1	0 set	Traction motor special tools including coupler pullers, coupling fixtures for torquing nuts, etc.	Not Provided, Standard Tools.	\$0	0.00	0	0.00	Not required

2	0 set	Gear unit special tools including pullers, alignment tools, grease measuring cup, dismantling plate assembly, backlash checking tool, etc.	Not Repairable by Customer	\$0	0.00	0	0.00	Not Repairable by Customer
3	0 set	Fixtures to assemble gear unit	Not Repairable by Customer	\$0	0.00	0	0.00	Not Repairable by Customer
4	0 set	Fixtures to assemble traction motor	Not required	\$0	0.00	0	0.00	Not required
5	0 each	Equipment and software required to allow COEP to interface, troubleshoot, download maintenance files, upload software and otherwise maintain all of the propulsion and control systems on the car. May be included with the PTUs of Section 10. <u>See Amendment #4.</u>	Included in Section 10	\$0	61,200.00	1	61,200.00	<p>A test fixture for performing a low-power functional test on the equipment. The purpose of this would be to confirm that replaceable items (power modules, contactors, etc) are faulty before replacement.</p> <ul style="list-style-type: none"> * Equipment to consist of 1kW variable DC supply up to 800V. * Light bulb or equivalent resistive load to simulate the motor field and armature and the brake resistors. * Test pcb with switches and means of generating CAN messages. * A hand held programmer permanently attached to the test panel. <p><u>Hand-held programmer unit ATS model number A300220-1, Universal Handheld Programmer. This device allows the user to have read and write access to the parameter sets for each drive unit. Examples of the types of information available to the user:</u></p> <ul style="list-style-type: none"> - Analog inputs (current, voltage, temperature, etc.) - Digital inputs (controls signals, fault switches, etc.) - Status of drive unit (run status, fault status, etc.) - Calculations (rpm, speed, counters, timers, etc.) - Parameter settings (Drive, motor, etc.) - Fault history
7 TRUCK ASSEMBLIES								
1	0 each	Wheel, flange and tread measuring device. Device shall be electronic and interface with its included computer application software to display and evaluate the wheel, flange and tread conditions of the wheels	\$30,282	\$0	38,682.56	1	38,682.56	<ul style="list-style-type: none"> • MEWG.DS32.L34 Miniature Electronic Wheel Measurement Gauge • Micro Ohm Meter With Kelvin Clips • PMC Digital back to back gage
8 FRICTION BRAKE								
1	0 each	All special tools, jigs, fixtures, measurement devices, etc. needed to remove, install, and adjust the brake system	\$1,408	\$0	0.00	0	0.00	No longer required, all adjustments can be made with general mechanics tool set
9 COMMUNICATIONS								
1	0 set	Equipment and software to allow COEP to view, edit, save and use video and audio data recorded by the communications system	\$2,817	\$0	800.00	1	800.00	REI-ARMOR VMS software
2	0 set	Equipment and software required to allow COEP to interface, troubleshoot, download maintenance files, upload software and otherwise maintain all of the communications systems on the car, including, but not limited to TOMAC, next stop, PA, CCTV and TWC systems. May be included with the PTUs of Section 10.	\$53,521	\$0	13,650.00	1	13,650.00	Vecom - Portable Test interrogator
10 GENERAL								

1	0 units	Portable Test Units (laptops), all necessary software and interface cables needed to diagnose and adjust all electronic controls (Section 14.4.2)	\$5,070	\$0	3,758.33	3	11,275.00	<ul style="list-style-type: none"> • APU diagnostic software • TECU-PC diagnostic software USB to serial cable • Thermoking service software • 3 Laptops 14" color screen, 500GB harddrive, 8GB RAM Laptop loaded with the following software <ul style="list-style-type: none"> • REI - Armor VMS software • ABB - APU diagnostic software • Thermoking service software • TMV -TECU-PC diagnostic software • ATS - Saminco flash software • Luminator - IPS Software • Trapeze (Next Stop, Tomac) - Transit Master 1 license provided. Per vendor recommendation
2	0 set	Bench Test Equipment (Section 14.4.3)	\$21,127	\$0	0.00	0	0.00	• None
3	0 set	Gauges and Special Tools (Section 14.4.4)	\$15,135	\$0	16,119.00	1	16,119.00	<ul style="list-style-type: none"> • Shunk Spanner Wrench KM11 gauge for checking and recording contact force
11 CONTINGENCY								
1	Part, Material, Tools, and Equipment Contingency - See Note 1		\$0					
Total			\$161,618	\$0			\$158,351.28	Updated Total
<p>Note 1: Any portion of the value included in Section 11, Contingency, may be used by CRRMA, at CRRMA's sole discretion, to procure any part, material, tool, equipment or other item that is included on the vehicle, or is used to support, test or maintain the vehicle. The ability to use this line item shall be available to CRRMA, at CRRMA's sole discretion, up to the end of the base warranty of the last vehicle.</p>								
SUB-TOTAL SCHEDULE B - PART 2 SPECIAL TOOLS AND TEST \$0 EQUIPMENT				\$0				
TOTAL SCHEDULE B - SUM of PART 1 SPARE PARTS and PART 2 SPECIAL TOOLS AND TEST				\$0				

FORM III - SCHEDULE OF PRICES, SCHEDULE B – PART 1 SPARE PARTS, Rev 1

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE \$	TOTAL PRICE \$
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1 CARBODY

1	0 each	Operator barrier partition clear panel and attachment hardware	\$6,704.00	\$0
2	1 with each car	Tow bar, see Section 4.10. This spare part does not require a unit or total price as it shall be included in the Total Base Contract Price of the PCC. It is included here for completeness.	\$ NA	\$ NA

2 WHEELCHAIR LIFT

1	1 each	Complete wheelchair lift/ramp system, ready to install	\$17,969.00	\$17,969.00
2	0 each	Complete set of wheelchair lift system controls	\$6,289.00	\$0
3	0 set	All sensors and safety devices that are used by the lift controller to ensure system deploys and retracts in a safe manner	\$4,492.00	\$0

3 OPERATOR'S CAB

1	1 each	Operator's console complete with all switches, buttons, indicators, ready to install	\$4,911.00	\$4,911.00
2	1 set	Operator's foot pedal controls, ready to install	\$10,500.00	\$10,500.00
3	1 each	Operator seat, including pedestal (if applicable) and all cushions, ready to install in car	\$2,870.00	\$2,870.00
4	0 each type	Sun visors, complete, ready to install	\$352.00	\$0
5	0 each	Fire extinguisher (see TS 12.9)	\$176.00	\$0
6	0 each	Cab heater, complete, ready to install	\$915.00	\$0
7	0 each	Operator barrier curtain, complete	\$352.00	\$0
8	0 each	Operator control handle and reverser handle	\$176.00	\$0
9	0 each	Wheel chock, (see TS 12.10)	\$211.00	\$0
10	0 each	Switch iron (see TS 12.11)	\$141.00	\$0
11	0 each	Reflector triangles (see TS 12.12)	\$56.00	\$0
12	0 each	Not Used, to be Authority Supplied Material.	\$ NA	\$ NA

4 PASSENGER DOORS

1	1 each	Door operator/drive unit, all parts, including controls, unassembled, blinker door system of front door	\$5,493.00	\$5,493.00
2	1 each	Door operator/drive unit, all parts, including controls, unassembled, bi-fold door system of center door	\$5,965.00	\$5,965.00
3	0 each	Complete assembled door operator/drive unit, ready to install, blinker door system of front door	\$5,493.00	\$0
4	0 each	Complete assembled door operator/drive unit, ready to install, bi-fold door system of center door	\$5,965.00	\$0
5	0 each	Door panels, one complete entrance, blinker door system of front door	\$9,219.00	\$0

FORM III - SCHEDULE OF PRICES, SCHEDULE B – PART 1 SPARE PARTS, Rev 1

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE \$	TOTAL PRICE \$
6	0 each	Door panels, one complete entrance, bi-fold door system of center door	\$9,358.00	\$0
7	0 doorway set	Door seals for front door	\$986.00	\$0
8	0 doorway set	Door seals for center door	\$1,056.00	\$0
9	0 set	Door panel glazing, blinker door panel	\$106.00	\$0
10	0 set	Door panel glazing, bi-fold door panel	\$106.00	\$0
11	0 car set	Door stop request system	\$1,408.00	\$0

5 HVAC

1	1 each	Air conditioning/heating unit, complete including controller, ready to install	\$40,704.00	\$40,704.00
2	0 each	Filter/dryer	\$338.00	\$0
3	0 each	Resilient vibration isolation mounts (all)	\$203.00	\$0
4	24 car sets	Fresh air and return air filters	\$197.00	\$4,728.00
5	0 car sets	HVAC control relays, all	\$8,113.00	\$0
6	0 of each type	Not Used	\$ NA	\$ NA
7	0 each	Temperature sensors	\$880.00	\$0
8	0 each	HVAC electronic control unit	\$10,176.00	\$0
9	0 each	Air flow switches	\$500.00	\$0
10	0 of each type	Control relays and contactors	\$5,915.00	\$0
11	0 each	Compressor	\$8,141.00	\$0
12	0 each	Evaporator fan/motor assembly	\$10,176.00	\$0
13	0 each	Condenser and motor assembly	\$8,955.00	\$0

6 LIGHTING

1	0 car set	LED power supply/LED driver	\$NSP	\$0
2	0 car set	Lenses for all lights and indicators, interior and exterior	\$6,972.00	\$0
3	0 each type	Light fixtures	\$3,521.00	\$0
4	0 each	Lamps/LED assemblies	\$6,338.00	\$0
5	0 each	Headlight (complete assembly)	\$211.00	\$0

7 AUX. ELECTRICAL EQUIPMENT

1	1 each	Pantograph assembly, complete, ready to install	\$16,658.00	\$16,658.00
2	8 each	Pantograph shoe carbon insert set for one complete pantograph replacement	\$803.00	\$6,424.00
3	0 each	Pantograph mounting insulators	\$92.00	\$0
4	1 each	Lightning arrester	\$1,804.00	\$1,804.00
5	1 each	High speed circuit breaker, complete	\$3,211.00	\$3,211.00
6	0 each	Battery box assembly including sliding tray	\$9,345.00	\$0
7	0 each	Battery circuit breaker	\$2,465.00	\$0

FORM III - SCHEDULE OF PRICES, SCHEDULE B – PART 1 SPARE PARTS, Rev 1

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE \$	TOTAL PRICE \$
8	0 each	Battery over temperature sensor	\$704.00	\$0
9	1 each	Auxiliary electrical supply, complete, ready to install	\$63,380.00	\$63,380.00
10	0 each	Battery charger, complete, ready to install	\$NSP	\$0
11	0 set	HSCB contact tips	\$963.00	\$0
12	0 car sets	Ground brush assembly, complete	\$1,859.00	\$0
13	0 car set	Control relays and contactors for pantograph, auxiliary electrical supply and battery charger	\$2,817.00	\$0
14	0 each	High voltage fuses	\$1,408.00	\$0
15	1 each	Battery set, complete with dividers and supports, ready to install	\$6,068.00	\$6,068.00
16	4 each	Ground brushes	\$352.00	\$1,408.00
17	0 set	Pantograph safety drop device components	\$352.00	\$0

8 PROPULSION

1	0 each	Dynamic brake resistor assembly, complete, ready to install	\$11,608.00	\$0
2	1 each	Propulsion chopper electronic control unit, complete, ready to install, in enclosure	\$48,873.00	\$48,873.00
<u>2A</u>	<u>1 each</u>	<u>Propulsion chopper electronic control unit, complete, ready to install, in enclosure. See Amendment #4</u>	<u>\$48,873.00</u>	<u>\$0</u>
<u>2B</u>	<u>1 each</u>	<u>TECU assembly, ready to install, made up of one PS/CPU Module 24V, and two I/O Modules. See Amendment #4</u>	<u>\$16,283.33</u>	<u>\$0</u>
3	0 car set	Propulsion chopper control ventilation blower (if applicable)	\$1,637.00	\$0
4	0 each	Fuses, all	\$2,817.00	\$0
5	0 each	Propulsion line contactor	\$2,113.00	\$0
6	0 set	Line contact tips	\$1,338.00	\$0
7	0 each type	Other propulsion system contactors	\$1,690.00	\$0

9 TRUCKS

1	2 each	Motor truck, complete, ready to install under car	\$185,922.00	\$371,844.00
2	0 each	Traction motor, complete, ready to install in truck	\$32,746.00	\$0
3	0 each	Gearbox and axle, complete, ready to install in truck	\$52,031.00	\$0
4	2 each	Friction brake system, complete, ready to install in truck	\$5,634.00	\$11,268.00
5	0 each	Primary springs	\$7,042.00	\$0
6	0 each	Motor/gearbox coupling	\$2,113.00	\$0
7	0 each	Journal box or equivalent, if not part of Section 9, Trucks, Item 3	\$NSP	\$0
8	8 each	Tire kit that includes: tire, full set of rubber wheel blocks, and full set of shunts	\$5,761.00	\$46,088.00

FORM III - SCHEDULE OF PRICES, SCHEDULE B – PART 1 SPARE PARTS, Rev 1

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE \$	TOTAL PRICE \$
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9	1 car set	Speed sensors	\$634.00	\$634.00
10	0 car set	Dampers	\$704.00	\$0

10 BRAKES

1	1 truck set	Track brake, complete, ready to install	\$13,859.00	\$13,859.00
2	0 car set	All manually controlled devices for brake equipment	\$1,056.00	\$0
3	10 car sets	Brake pads	\$1,307.00	\$13,070.00
4	0 each type	Transducers	\$669.00	\$0
5	0 car sets	Speed probes/sensors	\$1,408.00	\$0
6	0 car set	Friction brake calipers	\$1,268.00	\$0
7	0 car set	Friction brake actuators and linkage	\$10,563.00	\$0

11 COMMUNICATIONS

1	1 car set	Communications System, complete ready to install (including but not limited to control unit(s), destination signs, speakers, microphones, intercom, cameras, power supplies, converters, and mounting hardware for the TOMAC, next stop, PA, and CCTV systems)	\$39,284.00	\$39,284.00
2	0 each	Front destination sign ready to install	\$4,949.00	\$0
3	0 each	Side destination sign ready to install	\$1,752.00	\$0
4	0 each	Rear destination sign ready to install	\$1,127.00	\$0
5	0 car set	CCTV cameras (complete set for one car)	\$3,521.00	\$0
6	0 each	DVR complete ready to install	\$6,549.00	\$0
7	6 each	DVR removable storage medium	\$1,237.00	\$7,422.00
8	0 car set	TWC system, complete ready to install	\$16,901.00	\$0
9	2 each	TOMAC memory module	\$242.00	\$484.00
10	0 car set	Not Used, to be Authority Supplied Material.	\$ NA	\$ NA

12 INTERIOR AND EXTERIOR

1	0 each	Glazing strip, windshield	\$458.00	\$0
2	0 car set	Glazing strips, complete car including emergency windows, minus windshield	\$3,148.00	\$0
3A	20% of car set	Forward facing layout: Seat cushions, back and bottom, complete with padding and cover, ready to install on seat frame	\$21,127.00	\$4,225.00
3B	20% of car set	Perimeter layout: Seat cushions, back and bottom, complete with padding and cover, ready to install on seat frame	\$19,718.00	\$3,943.00
4	0 car set	Exterior and interior graphics, all	\$1,056.00	\$0
5	0 car set	All floor covering (equivalent amount in rolls)	\$4,225.00	\$0
6	0 car set	All special nosings, trims and equivalent used for floor covering	\$1,408.00	\$0
7	0 car set	Stanchions and rails (all horizontal and vertical sections plus all fittings, hardware and hand holds)	\$23,232.00	\$0

FORM III - SCHEDULE OF PRICES, SCHEDULE B – PART 1 SPARE PARTS, Rev 1

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE \$	TOTAL PRICE \$
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8	0 car set	Wheelchair tie down system, complete	\$1,096.00	\$0
9	0 car set	Door thresholds	\$1,056.00	\$0
10	0 each	Windshield wiper system, complete	\$986.00	\$0
11	1 each	Cab windshield glazing	\$585.00	\$585.00
12	0 car set	Passenger windows, glazing and frames, all types, complete, ready to install in car	\$71,268.00	\$0
13	0 each	Bike rack, ready to install	\$845.00	\$0
14	0 each	Panel(s), cover(s), handle(s) and lock(s) used to cover and secure the rear control handles	\$352.00	\$0
15	0 car set	Not Used	\$ NA	\$ NA

13 MISCELLANEOUS

1	0 each type	Circuit breakers	\$2,817.00	\$0
2	0 each	Horn	\$704.00	\$0
3	0 each	Bell	\$634.00	\$0

14 CONTINGENCY

1	Part, Material, Tools, and Equipment Contingency, See Note 1			\$ 0
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Note 1: Any portion of the value included in Section 14, Contingency, may be used by CRRMA, at CRRMA's sole discretion, to procure any part, material, tool, equipment or other item that is included on the vehicle, or is used to support, test or maintain the vehicle. The ability to use this line item shall be available to CRRMA, at CRRMA's sole discretion, up to the end of the base warranty of the last vehicle.

SUB-TOTAL SCHEDULE B – PART 1 SPARE PARTS				\$753,672.00
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