



UTAH TRANSIT AUTHORITY

669 West 200 South
Salt Lake City, UT 84101

December 4, 2024

Siemens Mobility Inc.

Sent via email only

James_evans@siemens.com

RE: 20-03235 Light Rail Vehicle Repair Services Agreement (LRV 1137)

Contract Modification No. 2

Dear Mr. Evans,

The purpose of this letter is to modify the current Light Rail Vehicle Repair Services Agreement (“Agreement”) between Siemens Mobility, Inc. (contractor) and Utah Transit Authority (UTA) dated June 2, 2020 (UTA Contract Number 20-03235). This Contact is to repair light rail vehicle 1137 that was involved in an accident.

This letter (Modification No. 2) is to increase the cost from \$1,503,250.00 to \$1,774,477, which is a \$271,227 increase. This modification is due to significant hidden damage in the roof structure. Please refer to Exhibit A and B (attached) for details, and to extend the Project Completion date to March 31, 2025,

All other terms and conditions of this contract shall continue in full force and effect.

If you are in agreement with the above referenced amendment, please sign on the line indicated below.

UTAH TRANSIT AUTHORITY

SEIMENS MOBILITY, INC.

By: _____ Date: _____
Jay Fox
Interim Executive Director

Signed by:
By: James Ash Evans Date: 12/10/2024
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Accident Repair Segment Lead

By: _____ Date: _____
Patrick Preusser
Chief Operating Officer

Approved as to form and content

DocuSigned by:
Michael Bell _____ 12/10/2024
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Assistant Attorney General
UTA Counsel



Exhibit A

Price Proposal



Mobility Customer Services

Utah Transit Authority
Ryan Gardner
669 W. 200 S.
Salt Lake City, UT 84104

Date: October 24th, 2024
Subject: LRV 1137 Change Order Request, Roof
Repair
Response required: Yes

LRV 1137 Change Order - Roof Repair:

This change request is related to the repair of significant hidden damage in the roof structure of Accident Vehicle 1137. Our original proposal included repair of visible damage above and at the door portals and this damage was repaired in conformance with the original proposal and was not included in this change request. This is the contract language that is applicable to this case:

"Damage to the roof structure are visually present but it has not been fully inspected. Once the roof is accessible for removal a full evaluation will be performed. This report and supplemental list of materials cover structural components only and surrounding components that require repair prior to finishing work. These include many components that are not present in the pictures due to the teardown to evaluate the LRV structure."

In most cases, Siemens does not request a change for small deviations and will simply notify our customer of what we found and complete the repair. However, in this case, the hidden damage required more significant labor and material and was outside our risk threshold. This repair required a complete disassembly and removal of the roof on the affected module, which was outside the original contract's scope.

In February 2023, we completed disassembly of the damaged section in the articulation portal of LRV 1137. After the damaged sections were removed, it revealed hidden roof structure damage which required repair before we could continue with other structural repairs. The damage was isolated to the area along the articulation portal (see documentation below).

Under my management, I directed the project team to calculate and supply UTA with a change request as the repair of this damage was not included in our original proposal and agreement. To my knowledge, this proposal was presented and agreed upon, allowing Siemens to proceed with the repair. However, due to other circumstances, the project team failed to complete this task with UTA. Since this time, there has been a change in our project team and now it has become clear to both Siemens and UTA that no formal change order agreement was made. In multiple meetings since the repair was completed, we have verbally discussed the scope of this additional repair which should have been provided and even shared the commercial value. Although the repair proved more complicated than originally discussed, in good faith, Siemens is not proposing nor requesting a commercial value higher than discussed.

Today, I would like to formally request a post-dated proposal and agreement to which Siemens can invoice and receive payment for this work which was completed in between March 2nd and June 21st, 2023.

Below is the scope of the work and itemized cost drivers to support our request:

Scope of Work

- Complete structural repair including primer and paint in the damaged area
- CWI Inspection after the structural repair
- Disassembly of entire roof cable harnesses and cable trays of affected module
- Removal of the roof utilizing manufacturing tooling and assemblies
- Reinstallation of repaired roof for the module
- Reinstallation of complete wire harnesses and fasteners into cable trays
- Validation of proper reinstallation
- Material required for repair
- Work to be completed in the McClellan Park facility under guidance of quality assurance and Siemens Engineering
- This change order proposal is to be executed under contract No. 20-03235 and therefore subject to those terms. Additional terms are outlined below that apply to this specific repair.

Workmanship Standards:

Please refer to the attached document QMP-003 rev 1.pdf for the SIEMENS CS General Workmanship Standards in Revision 1.

Material/Tools:

Material/Tools required to support the base scope outlined above is included within this proposal. Damaged components and/or material discovered during the assessment or testing are not included within this proposal and will be quoted separately.

Price: USD \$271,227

Price Breakdown:

Functions	Labor Rate	Total Value	Notes
Engineering	\$234	51,538.70	Inspection, Design and Supervision
Quality Assurance	\$234	20,510.00	Inspection and Verification
Repair Labor	N/A	184,590.00	Inspection, disassembly, repair, reassembly
Repair Materials	N/A	8,204.00	Repair material, OEM bracketry, wire harnesses (rework) and sealant
Support Functions	\$179	8,790.00	Facility, scheduling and procurement/supply chain
Management	\$176	20,510.00	Project Management, Commercial Project Management
Total		\$ 294,142.70	
Price adjustment		\$ (22,915.70)	
Total (w/ adjustment)		\$ 271,227.00	

Milestone Payments:

Total Change Order Value Payment due 30 days after invoice approval:

100% USD \$271,227

Repair Labor Detail (\$ 184,590.00):

Due to the scope performed, a multidisciplinary team with specific knowledge was needed to ensure the completion. Below are the groups involved, labor effort and their areas of responsibility:

Function	Labor Rate	QTY	Total Value	Notes
Technician	\$150	640	96,000.00	4 personnel x 20 days (5 days for roof removal + 15 days for roof reinstallation)
Welder	\$220	80	17,600.00	1 personnel x 10 days (2 days of prep + 7 days of welding + 1 days of inspection)
Expert House	\$180	180	32,400.00	2 personnel x ~11 days (overall plan / wiring rework and installation)
Material Handling	\$135	40	5,400.00	1 personnel x 5 days
Industrial Engineering	\$234	80	18,720.00	1 personnel x 10 days (technical plan/support)
Blasting Machine	\$1,800	3	5,400.00	Daily Rental. Total usage = 3 days
High-capacity Forklift	\$2,200	7	15,400.00	Daily Rental. Total usage = 7 days

Total \$ 190,920.00
Price adjustment \$(6,330.00)
Total (w/ adjustment) \$ 184,590.00

Technician: Dismounted roof panel covers, unfastened connectors and cable mounts, cut wire ties, supported roof removal and installation, landed wiring / cabling in original troughs, harness organization and water-tight sealant.

Welder: Removed damaged sections, surface prep, fabricated splice repair, fabricated mounting provisions, completed welding, blasted metal, primed and paint repaired section(s).

Expert House: Worked with Industrial Engineering to develop roof removal plan, supported roof removal and reinstallation, inspected wire/cable routing, terminated connections, re-pinned various wire connector assemblies, completed continuity test.

Material Handling: Supported roof removal / reinstallation, supplied jacks for roof repair and storage, organized removed material and prepared for reinstallation.

Industrial Engineering: Designed work plan, consulted with RS production, rented specific machinery, supported roof removal / reinstallation, incorporated necessary safety protocol.

Blasting Machine: Due to work being completed in the Price Ave building, this work necessitated rental of a blast machine for localize blasting of roof repair.

High-Capacity Forklift: Due to the size of fixture, a wide-stance forklift was required to remove and reinstall the roof.

In terms of material consumption, below the summary of the items needed to complete the scope:

- Wire (~80ft 14 gauge)
- Cable (~40ft MVB)
- Conduit Organization: Zip ties, mounting provisions, cable chaffing mitigation
- Primer (1 pint)
- Paint (1 pint)
- Roof mounting bolts
- Wire troughs
- HVAC ducting
- Sheet metal
- Fabricated mounting bracketry

Siemens informs that the breakdown presented in this document is strictly applicable to the services performed during the repair of LRV #1137 according to the Scope of Work mentioned in this document. These rates cannot be used as a reference for any other services, contracts and future negotiations due the prices are subject to change without further notice.

Exhibit B
Repair Summary