

Contract UT-14-1268TH  
FrontRunner Wi-Fi

**MODIFICATION NUMBER SIXTEEN  
TO CONTRACT UT 15-1268TH**

This Modification Number Sixteen (16) to Contract Agreement is hereby entered into and made effective as of the date of the last signature below the (“Effective Date”), by and between UTAH TRANSIT AUTHORITY, a public transit district organized under the laws of the State of Utah, (hereinafter “UTA”) and The GBS Group, (hereinafter “Contractor”).

RECITALS

WHEREAS, on October 7, 2015 UTA entered into a contract for providing a Front Runner Wi-Fi System and all associated hardware, software, tools, training, documentation, and operation and maintenance; and

WHEREAS, on June 24, 2022 Modification Number Fourteen executed an extension to the Contract Agreement through April 30. 2023; and

WHEREAS, the Wi-Fi System requires an upgrade of equipment from the TMU to the TMU+, and antenna to 3x3 MIMO antenna; and

WHEREAS, the Contractor has presented a proposal for the items identified; and

WHEREAS, UTA and the Contractor now desire to modify the Contract Agreement as set forth herein.

CONTRACT AGREEMENT

NOW, THEREFORE, on the stated Recitals, which are incorporated hereby in reference, and for and in consideration of the mutual covenants and agreements hereafter set forth, the mutual benefits to the parties to be derived here from, and for other valuable consideration, the receipt and sufficiency of which the parties acknowledge, it is hereby agreed as follows:

1. Term: There is no change in the term of the Contract.
2. Changes to Contract Requirements:

The Contractor should provide Antenna Upgrade replacement equipment and including installation labor as identified in GBS proposal #R22-00035 Rev 1 dated May 27, 2022 for Twenty One (21) Cab Cars according to the attached Statement of Work Exhibit 1.

3. Compensation and Fees: The amount of the work as described and accepted in the GBS proposal is \$5,058.00 for installation labor, and \$10,569.00 per Car. The total number of cars will be Twenty One (21) for a total of \$328,167.00. The total value of the contract is increased from \$3,446,222.88 by \$328,167.00 to a new total not to exceed \$3,774,389.88.

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4. Other Terms Remain in Effect: All other terms and conditions remain unchanged.

IN WITNESS WHEREOF, the parties hereto have executed and delivered the Agreement as to the date written above.

**THE GBS GROUP:**

DocuSigned by:

*Michelle DeArmond*

7016FB34FF5D416  
Michelle DeArmond

Director of Contracts

Date 11/28/2022

**UTAH TRANSIT AUTHORITY:**

\_\_\_\_\_  
Alisha Garrett

Chief Enterprise Strategic Off

Date

\_\_\_\_\_  
Kyle Brimley

IT Director

Date

DocuSigned by:

*Mike Bell*

70E33A415BA44F6  
Michael Bell

Assistant Attorney General

Date 11/28/2022

## **Exhibit 1 to Modification No. 16 to Contract UT15-1268TH**

### **Detailed Statement of Work Breakdown for GBS Proposal No. R21-00035 Rev 1 for UTA Cab Car Install**

The GBS Group will perform the following functions to support 21 Cab Car Onboard Radwin Car Radio and Antenna Upgrades.

Develop Bill of Material to support Cab Car installation.

#### **Site Survey**

The existing BOM will be reviewed, and any additional material ordered to support installation.

#### **Material Receipt, Assembly, and Kitting**

Upon receiving the equipment, GBS will configure the Transportation Mobile Unit, TMU+ and provide asset information to the OSS (Operational Support System). GBS will prepare all equipment/material for installation; pre-install all mounting brackets to the TMU+ and antennas.

UTA will provide/Manufacture the antenna foundations.

#### **Onsite Installation QA/Testing Support**

UTA personnel will Assist GBS with the install of equipment on 21 Cab Cars at the Warm Springs Facility. UTA will assist with coordination of roof access to the cars during the installation.

After the physical installation is complete, GBS will conduct QC checks to ensure the OSS can see the new equipment on the network. GBS will run back-office reports to validate the Radwin system is operational.

UTA Onboard Radwin Car Radio and Antenna Upgrades GBS BOM					
Description	Short Name	Qty per Car	Location	Manufacturer	Manf Part #
1-1/2" PCV Non-Metallic Terminal Adapter	Cable gland	2	On Board	Carlion	E943HRL
1-1/2-in Rigid Lock Nut	Lock Nut	1	On Board	Gampak	47105
Silicone Caulk	Silicone	1	On Board	GE	LW5000
Ethernet cable RJ45 to M12 X-Code 12m A End Switch to TMU	12m cable	1	On Board	Phoenix Contact	Custom
Ethernet cable RJ45 to M12 X-Code 30m B End Switch to TMU	30m cable	1	On Board	Phoenix Contact	Custom
RJ45 extension cord	RJ45 extension cord	2	On Board	iGreely	
M12 X-code Male Connector	M12 connector	2	On Board	Phoenix Contact	1417430
RADWIN TMU 500 Transportation Mobile Unit Radio, supporting MIMO 3x3, 80MHz CBW, 256QAM	TMU	2	On Board	Radwin	RW-5R00-0458
Shark Fin Antenna	Antenna	2	On Board	Radwin	RW-9401-5002
LMR-240 Cable	LMR-240	2	On Board		
11-in Nylon Cable Ties	Cable ties	0.25	On Board	Utilitech	SGY-CT41
LMR-400 Cable	1m cable	2	On Board		
N(Male) Crimp on, LMR-400	Connector	6	On Board		

UTA BOM

Description	Qty per Car	Manuf Part #
Shark Fin Tilted Antenna Adapter Plate	4	860-1002-14
Large Antenna Assembly (Lower Center)	1	860-1002-16
Mounting Plate, Combination	2	860-1002-1
Large Antenna Assembly (Top Center)	1	860-1002-11-9A
Antenna Foundation Plate	2	860-1002-8-4
Antenna Foundation Plate Gasket	2	860-1002-8-5