

TASK ORDER NO. 23-025

TASK ORDER NAME: 450 E. Crossover Materials

PROJECT CODE: SGR-404

This is Task Order No. 23-025 to the On Call Maintenance Contract entered into by and between Utah Transit Authority (UTA) and Rocky Mountain Systems Services, (Contractor) as of February 24th, 2021.

This Task Order is part of the On Call Maintenance Contract and is governed by the terms thereof.

The purpose of this Task Order is to specifically define the scope, schedule, lump sum price, and other terms applicable to the work identified herein.

UTA and Contractor hereby agree as follows:

1.0 SCOPE OF SERVICES

The scope of work for Task Order #23-025 is hereby attached and incorporated into this Task Order.

2.0 SCHEDULE

The Substantial Completion Date for this Task is December 31, 2024. The Final Acceptance Date for this Task is December 31, 2024.

3.0 LUMP SUM PRICE

The price for this task order is a not to exceed \$790,040. Invoices will be billed on monthly basis for work completed to date.

4.0 APPLICABILITY OF FEDERAL CLAUSES

This Task Order does does not [Check Applicable] include federal assistance funds which requires the application of the Federal Clauses appended as Exhibit D to the On Call Maintenance Contract.

IN WITNESS WHEREOF, this Task Order has been executed by UTA and the Contractor or its appointed representative

UTAH TRANSIT AUTHORITY:

By: _____
Jay Fox, Executive Director Date
> \$200,000

By: _____
David Hancock, Chief Capital Services Officer Date
< 200,000

By: _____
Jared Scarbrough, Director of Capital Constr. Date
< \$75,000

By: _____
Dean Hansen, Project Manager Date
< \$25,000

DocuSigned by:
Mike Bell 11/30/2023
Legal Review Date
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Procurement Review Date

ROCKY MOUNTAIN SYSTEMS SERVICES:

DocuSigned by:
By: Shon Tulik
014066E9F23E4B5...

Date: 11/30/2023



November 10, 2023

RMSS-52598-088

Dean Hansen
 Manager of Systems Engineering
 2264 South 900 West
 Salt Lake City, UT 84119

Reference: Utah Transit Authority – Systems On-Call Services

Subject: 450 East Power Crossover LL Material Proposal

Dean,

Rocky Mountain Systems Services (RMSS) is pleased to provide a proposal for the procurement of the long lead materials required to power up the 450 East Crossover located on the Red Line on the UTA TRAX alignment. Powering up 450 East will result in converting this location into an interlocking.

Our lump sum price for this proposal is **\$790,040.00**

Under this proposal, RMSS will procure the following materials:

SIGNAL HOUSE	Part #	Unit Cost	Quantity	Lead Time
8X12 Signal Bungalow w/ Hotel Amenities		EA	1	TBD at time of order
Coupler Case		EA	4	TBD at time of order
RS400		EA	1	TBD at time of order
Aluminum Mast Assembly		EA	2	TBD at time of order
Signals		EA	2	TBD at time of order
LCP Panel		EA	1	TBD at time of order
ALSTOM Signal Material				
Assy Term Strip Dbl Post 12	250094-300	EA	33	50 Days
Assy 4 Post Term Block	203032-000	EA	192	45 Days
Assy AGA-1	202216-001	EA	64	45 Days
Assy AGE-1	202217-000	EA	36	45 Days
Nut Insulated Harmon	013986-000	EA	100	45 Days
Plate Ground 12POS	122325-001	EA	1	95 Days
Strap Buss 1" Hole CTR 35.7 LG	132167-001	EA	9	95 Days
Assy 19" RK 7'-0" Dbllap RL Gray	202080-102	EA	3	48 Days
Din Rail STD 35mm x 7.5mm x 19.68"	124422-000	EA	4	95 Days



ROCKY MOUNTAIN SYSTEMS SERVICES

Assy, 9-Slot Elixs w/ Backplane	300752-000	EA	1	45 Days
Assy Elixs VTI-2S Personality Mod	227442-000	EA	1	45 Days
Assy Module EC5 VTI-2S	S251123-000	EA	1	45 Days
Assy Elixs VLD-R16S Personality Mod	227539-000	EA	1	45 Days
Assy VLD-R16S	251381-000	EA	1	15 Weeks
Assy Elixs VIO-86S Personality Mod	227537-000	EA	5	45 Days
Assy Elixs VIO-86S	251380-000	EA	5	45 Days
Assy Elixs CDU-2	251124-100	EA	1	45 Days
Assy Elixs CPS-3	251456-000	EA	1	45 Days
VPM-3 Module - Crossing	251432-200	EA	1	99 Days
Assy Elixs CIO-CLA	251329-100	EA	1	45 Days
Assy UCI-3 Module	251495-000	EA	1	45 Days
Assy Elixs GFD-1	251333-000	EA	1	45 Days
Assy MOD Elixs CIO-2A	251330-000	EA	2	45 Days
Assy Cable CIO-CLA TO LCP 10ft	075113-010	EA	1	75 Days
Assy BSA-6	250597-100	EA	1	99 Days
PNL B2 BSA-4/BSA06 MTG Gray	123729-003	EA	1	95 Days
Bar Mounting 19" Gray Powder	122272-002	EA	8	15 Weeks
Bar Tie 19" Gray Powder Coat	123160-003	EA	5	15 Weeks
Conn 7FEM .2CN CBLMT HC Lub	032773-107	EA	1	15 Weeks
Assy Switch Control Rectifier	250756-000	EA	2	15 Weeks
SYS Switch Cntrlr 110V 3-W Dual (includes one (1) spare	300601-1320	EA	3	90 Days
Final Assy E2Code ECC No Cab	00-088031-001	EA	1	99 Days
SIEMENS				
Transceiver Assembly, PSO 4000 (includes two (2) spares)	NYK:70007A4750001	EA	16	31 Weeks
Line Coupling Unit	NYK:70007A3880001	EA	28	13 Weeks
Tuned Rcvr Coupler, 3240 HZ	NYK:70007A3553240	EA	1	7 Weeks
Surge Protection, SP24-2A	NYK:40004481105AX	EA	1	7 Weeks
Link Assy, Test	NYK:024620-19X	EA	235	13 Weeks
Link, Copper 1" Centers	NYK:023839-2	EA	65	13 Weeks
Rail Magnet, 40V with Yellow Cap, B7	A2V00001689146	EA	4	61 Weeks
S25442-T3-A4 - Dynamic Loop Amplifier DEA 100	NYK:A2V00002394880	EA	4	43 Weeks
Dynamic Receiver Antenna DEA 100 MRPD	NYK:A2V00002394879	EA	4	43 Weeks
Bracket, Mounting Material No C25145-A19-D4	A2V00002414376	EA	4	74 Weeks
Relay Neutral 6FB(HD) 500 OHM A62-580	US2:400023	EA	8	13 Weeks
Relay Neutra4FB-2F-1B(HD) 500 OHM A62-310	US2:400020	EA	2	13 Weeks
Relay Neutral 6FB(HD) 500 OHM A62-262	US2:400000	EA	1	13 Weeks



Socket Assembly & Test Post Kit, Voltage for ST & Test Kit	NYK:420000-75X	EA	14	13 Weeks
S25448-C6-B300 CPU Standard	NYK:A2V00002077408	EA	1	47 Weeks
L25010-A1-P531 - Power Supply Module	NYK:A2V00082042873	EA	1	65 Weeks
V25131-A1-A733 - Power Cable CPU850	NYK:A2V00002162556	EA	1	47 Weeks
V25910-Z2-A85 - Ferrite Retractable Core in Plastic Rack	NYK:A2V00082059813	EA	1	71 Weeks
S25060-X37-D11 - Multiplexer-BGR-IMU100	NYK:A2V00082012712	EA	1	47 Weeks
Coupler, Line to Rail, Trans, 4000 HZ	NYK:70007A3994000	EA	1	7 Weeks
Coupler, Line to Rail, Trans, 3240 HZ	NYK:70007A3993240	EA	1	7 Weeks
Rail Line to Coupler, 4000 HZ	NYK:70017A3774000	EA	1	7 Weeks
Rail to Line Coupler, 3240 HZ	NYK:70017A3773240	EA	1	7 Weeks
S25060-X10-X20 - Switch Point 850	NYKA2V00082040456	EA	4	47 Weeks
C25438-B91-C84 - Antenna Pit Incl. Mounting Parts	NYK:A2V00001695691	EA	4	31 Weeks
Relay Biased Neutral 6FB 500 OHM A62-125	NYK: 400500	EA	4	13 Weeks
Coupler, Line to Rail, Trans, 2140 HZ	NYK:70007A3992140	EA	2	7 Weeks
Coupler, Line to Rail, Trans, 1180 HZ	NYK:70007A3991180	EA	1	7 Weeks
Coupler, Line to Rail, Trans, 2630 HZ	NYK:70007A3992630	EA	1	7 Weeks
Coupler, Line to Rail, Trans, 1770 HZ	NYK:70007A3991170	EA	1	7 Weeks
Rail to Line Coupler, 1770 HZ	NYK:70017A3771770	EA	1	7 Weeks
Rail to Line Coupler, 2630 HZ	NYK:70017A3772630	EA	1	7 Weeks
Rail to Line Coupler, 1180 HZ	NYK:70017A3771180	EA	1	7 Weeks
Rail to Line Coupler, 2140 HZ	NYK:70017A3772140	EA	1	7 Weeks

Clarifications

1. This proposal is only for the procurement and handling of long lead materials. All construction and design activities, except for wiring the fully furnished signal house will be handled under a separate proposal for their associated scope of work.
2. Signal cable is not included in this proposal due to the unknown final location of the signal house. RMSS will include this material with the proposal for construction and testing.
3. The intent of this proposal is to attempt to mitigate impacts from long-lead times and ongoing industry wide supply chain disruptions. RMSS will continue to make every effort to plan and implement construction activities to the extent possible to adjust for changes to procurement lead-times as they are revealed. However, due to the current state of the industry we cannot guarantee there will not be any impacts to the currently assumed timeline for commissioning of the new interlocking.



4. This proposal assumes that existing PDF and CADD files are available and will be provided to RMSS for all system level drawings if needed.
5. Three percent contingency has been included in the cost of this proposal to account for unknown variations in material pricing and shipping costs.

Assumptions

1. RMSS assumes the following vendors and equipment to be used into the new system:
 - a. New VLC's will be provided by Alstom
 - b. New equipment for track circuits, TWC equipment, and automatic trip stop equipment will be provided by Siemens
 - c. Switch machines will be provided by Voestalpine Railway Systems Nortrak
 - d. Switch heaters will be provided by Railway Equipment Company
 - e. The new signal house will be provided by PTMW
2. All lead-times are from the time-of-order and do not include duration for task order processing and execution or product submittal review periods.

This proposal is valid for 45-days, unless extended in writing by RMSS.

If you need any additional information, please don't hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to be "DJ", written over a horizontal line.

Doug Jones
Project Engineer
Rocky Mountain Systems Services

cc:

Marshall Wilson – RMSS
Anthony Ortolani – RMSS

Our pricing is in U.S. Dollars, F.O.B. Salt Lake City UT, and excludes all allowances, taxes, tariffs, licenses, and permits

UTA - On Call
450 East Power Crossover LL Material
Task Order Estimate Summary



**ROCKY MOUNTAIN
SYSTEMS SERVICES**

11/10/2023

Subcontractors \$	-
Materials \$	617,192.62
Administrative \$	15,397.00
Design/Engineering \$	-
Construction/Testing \$	42,463.00
Travel & Perdiem \$	-
Other Costs and Fee \$	114,987.00
Total: \$	<u>790,039.62</u>