



Task Order Request #25-004 - IT Fiber Enhancements

Status	Open	Assignees	Dean Hansen
Created Date	Nov 20, 2024	Issued Date	Nov 20, 2024

TASK ORDER IDENTIFICATION

Contract No	24-03814		
Contractor Name	ROCKY MOUNTAIN SYSTEMS SERVICES	Contract Start Date	06/14/24
Account Code(s)	TBD		

1.0 SCOPE OF SERVICES

The contractor's scope letter and price estimate is hereby attached and incorporated into this Task Order

[25-004 IT Fiber Enhancements_Final Scope-DH.pdf](#), [25-004 IT Fiber Enhancements_RMSS-52720-031_Proposal.pdf](#)

2.0 SCHEDULE

The Substantial Completion Date for this Task is	07/29/25	The Final Acceptance Date for this Task is	09/11/25
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3.0 PRICING

The pricing agreement for this item is one of the following:	Lump Sum	Invoices will be billed on a monthly basis for completed work to date. The price for this item is in the amount of	\$394,579
Provisional Sum Amount (if applicable). Note: Any unused amount of this provisional sum amount will be deducted from the contract upon closeout of the task order.	\$0	Independent Cost Estimate (ICE) link, if applicable	25-004 IT Fiber Enhancements_ICE.pdf

4.0 APPLICABILITY OF FEDERAL CLAUSES

Does this Task Order include federal assistance funds which requires the application of the Federal Clauses appended as Exhibit D to the Contract?	No	If federal assistance funds are anticipated, the UTA Civil Rights group has set a Disadvantaged Business Enterprises (DBE) participation goal	SGR410 does not have federal funding in 2025, but the use of federal dollars is optional. Received goal of Race Neutral.
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for this Task Order
of

UTAH TRANSIT AUTHORITY:

Required Signatures Explanation
Project Manager \$0 - 24,999
Legal Review \$25k or greater
Dir. of Capital Projects \$25k - 74,999
Chief Service Dev. Ofcr. \$75k - 199,999
Executive Director \$200,000+
Procurement/Contracts (for all)

Signature (Legal)
DocuSigned by:
By: Mike Bell
Name: MIKE BELL
Date: 11/21/2024

PM Approval The costs associated with this item have been measured against the standard schedule of rates and the agreed contract pricing, (where applicable) and have been deemed consistent and appropriate for the proposed scope of work.

Signature (Project Manager)
Signed by:
By: Dean Hansen
Name: Dean Hansen
Date: 11/21/2024

Director Approval I have evaluated the content of this task order and the scope of work described in the task ordering agreement and have made the determination that this Task Order is within the scope of work contemplated and described by the contracting parties when they executed the original task ordering agreement.

Signature (Director)
Signed by:
By: Jared Scarborough
Name: Jared Scarborough
Date: 11/21/2024

Signature (Procurement)
By: _____
Name: _____
Date: _____

Signature (Chief Service Development Officer)
By: _____
David Hancock, Chief Service Development Officer
Date: _____

Signature (Executive Director)
By: _____
Jay Fox, Executive Director
Date: _____

COMPANY:

COMPANY: ROCKY MOUNTAIN SYSTEMS SERVICES

RMSS Required Signature Explanation

- Up to \$100K – Josh Lafleur (jlafleur@modrailsystems.com)
- \$100K - \$500K – Anthony Ortolani (aortolani@modrailsystems.com)
- \$500K – \$2.5M - Shon Tulik (stulik@modrailsystems.com)
- >\$2.5M or Contract Time Extensions – Paul Reiger (preiger@modrailsystems.com)

**Signature
(Contractor)**

DocuSigned by:

By: Anthony Ortolani

Name: Anthony Ortolani

Date: 11/21/2024



November 7th, 2024

RMSS-52720-031

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

Reference: Utah Transit Authority – Systems On-Call Services

Subject: PTO031 IT Fiber Upgrades Main St. to FLHQ

Dean,

Rocky Mountain Systems Services (RMSS) is pleased to provide a proposal for scope changes requested by UTA’s IT department for additional fiber optic backbone upgrades.

Our lump sum price for this proposal is: **\$394,579.00.**

General

UTA proactively issued a series of task orders to replace the aging fiber optic backbone for the rail signal network as well as the IT network. It was recently determined that the fiber backbone from Main St. to FLHQ and from Meadowbrook Station to the Meadowbrook office building require 288-strands of fiber. As such, UTA has requested pricing to upgrade this segment of the network to a 288-strand fiber optic cable. Additionally, the UTA’s IT department has requested additional terminations at junction and terminus locations to allow for network expandability and flexibility.

Procurement

RMSS will procure the following materials under this scope of work:

Material Description	Location	Unit	Quantity
144-Strand Fiber Distribution Panel (Total of 288 Termination Points)	FLHQ	EA	2
288-Strand Underground Splice Enclosure Splice Trays	Main St.	EA	10
144-Strand SC Fiber Distribution Panel (Total of 432 Termination Points)	Union	EA	3
144-Strand SC Fiber Distribution Panel	Medical	EA	1
NEMA Box to house FDP	Medical	EA	1
144-Strand SC Fiber Distribution Panel	JRSC	EA	1
144-Strand SC Fiber Distribution Panel (Total of 288 Termination Points)	Meadowbrook	EA	2
288-Strand Underground Splice Enclosure Splice Trays	Meadowbrook St.	EA	10
144-Strand SC Fiber Distribution Panel	Fashion Pl. West	EA	1
19in Rack for mounting of FDP	Fashion Pl. West	EA	1



144-Strand SC Fiber Distribution Panel	Midvale SC	EA	1
144-Strand SC Fiber Distribution Panel	Sandy Civic Center	EA	1
NEMA Box to house FDP	Sandy Civic Center	EA	1
SC-Fiber Pigtails (Packs of 12)		EA	175
288-Strand SMFO Cable	Main St - FLHQ	FT	18500
288-Strand SMFO Cable	Meadowbrook Station – Meadowbrook SC	FT	8500
SC Bulkhead Adapters for all FDP's	Various	EA	150
Splice Trays for FDP's	Various	EA	50
Heat-shrink Splice Protectors	Various	EA	2500

Installation

RMSS and our subcontractors will perform the following installation activities under this scope of work:

- Hardware installation
 - Procured fiber distribution panels will be installed at the locations shown in the table above
- Fiber installation
 - RMSS will install approximately 18,500ft of 288-strand fiber from Main Street Interlocking to FLHQ
 - RMSS will install approximately 8,500ft of 288-strand fiber from Meadowbrook Station to the Meadowbrook office building comm room
 - Notes:
 - Approximately 50ft of fiber will be coiled up in each pull-box
 - The existing 144-strand fiber will be utilized to pull in the upgraded 288-strand fiber for both runs
 - Fiber lengths include approximately 18.5% extra for waste, service loops at final locations, and unknowns

- Fiber Splicing & Terminations

The following splicing is included in the scope of this proposal:

Location	Type of Splice	# of Splices
Main Street	Underground Fusion Splice	288
FLHQ	FDP Pigtail Termination	288
UP Diamond	FDP Pigtail Termination	432
JRSC	FDP Pigtail Termination	144
Meadowbrook	FDP Pigtail Termination	288
Meadowbrook Station	Underground Fusion Splice	288
Fashion Place West	FDP Pigtail Termination	144
Midvale Service Center	FDP Pigtail Termination	144
Sandy Civic Center	FDP Pigtail Termination	144
Medical Center	FDP Pigtail Termination	144

- Fiber Testing
 - All fiber will be tested with an OTDR calibrated within the previous 12-month period from the date of testing
 - 1310nm test of each terminated fiber
 - 1550nm test of each terminated fiber
 - All tests shall be bi-directional



4. This proposal assumes that installation of FDP's, splicing, and terminations will occur during revenue service hours on weekdays.

Exclusions

1. All IT network design.

This proposal is valid for 60 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 read "Josh LaFleur".

Josh LaFleur
Project Manager
Rocky Mountain Systems Services

cc:

Marshall Wilson – RMSS
Anthony Ortolani - RMSS
Troy Nelson – RMSS

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

Attachments:

- CommScope 288-strand SMFO Cut Sheet

UTA - On Call

PTO 031 - IT Fiber Optic Backbone Enhancement

Task Order Estimate Summary



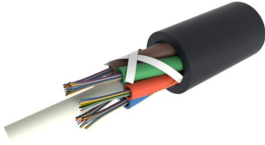
**ROCKY MOUNTAIN
SYSTEMS SERVICES**

10/23/2024

Subcontractors	\$	194,939.00
Materials	\$	56,732.00
Administrative	\$	26,008.00
Design/Engineering	\$	-
Construction/Testing	\$	67,886.00
Travel & Perdiem	\$	-
Other Costs and Fee	\$	49,014.00
Total:	\$	<u>394,579.00</u>



810009731/DB | B-288-LN-8W-F24NS/17G/200



Fiber OSP cable, Zero Water Peak® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube 200um Fiber Arid-Core® Construction, 288 fiber, Singlemode G.657.A1, Gel-filled, Feet jacket marking, Black jacket color

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	B-LN
Government Funding	Build America Buy America (BABA) compliant*

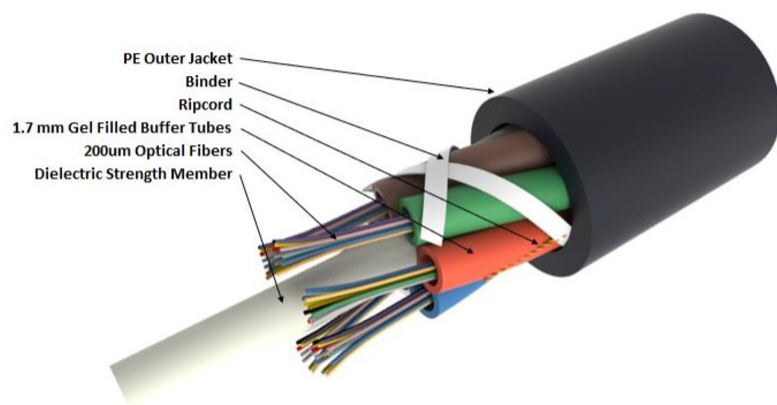
General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	0
Jacket Color	Black
Jacket Marking	Feet
Jacket Marking Method	Laser
Jacket Marking Text	COMMSCOPE GB (YYYY) 810009731/DB 288 X G657A1 200um (Serial number) (feet) FT
Subunit, quantity	12
Fibers per Subunit, quantity	24
Total Fiber Count	288

Dimensions

Buffer Tube/Subunit Diameter	1.7 mm 0.067 in
Diameter Over Jacket	9.5 mm 0.374 in

Representative Image



Material Specifications

Jacket Material High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, loaded	143 mm 5.63 in
Minimum Bend Radius, unloaded	95 mm 3.74 in
Tensile Load, long term, maximum	335 N 75.311 lbf
Tensile Load, short term, maximum	1000 N 224.809 lbf
Compression	10 N/mm 57.101 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	0.3 N-m 2.655 in lb
Impact Test Method	FOTP-25 IEC 60794-1 E4
Strain	See long and short term tensile loads
Strain Test Method	FOTP-33 IEC 60794-1 E1
Twist	10 cycles

810009731/DB | B-288-LN-8W-F24NS/17G/200

Twist Test Method	FOTP-85 IEC 60794-1 E7
Vertical Rise, maximum	769 m 2,522.966 ft

Optical Specifications

Fiber Type	G.657.A1, TeraSPEED®
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Environmental Specifications

Installation temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	IEC 60794-5-10
Environmental Space	Air-blown, microduct
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze	-2 °C 28.4 °F
Cable Freeze Test Method	FOTP-98 IEC 60794-1 F15
Drip	70 °C 158 °F
Drip Test Method	FOTP-81 IEC 60794-1 E14
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	FOTP-37 IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1

Packaging and Weights

Cable weight	77.5 kg/km 52.078 lb/kft
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Included Products

CS-8W-200UM-LT	–	200 Micron Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber
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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable