

Wireless Road Underground Cabling Project

Scope of Work

Introduction

The U.S. Embassy in Bangkok, Thailand has identified we have telecom wires installed between several electrical poles along Wireless Road and other locations that must be moved underground to support the Wireless Road underground cabling initiative. We have cabling currently connecting six buildings on Wireless Road.

Project Objectives

- Install, test, and terminate fiber in underground conduit to replace existing aerial lines between U.S. Embassy Buildings along Wireless Road.
- Install fiber patch panels and related hardware required to support the installation of the new infrastructure
- Upon completion of successfully installed infrastructure and transition of existing services from existing aerial cables to underground infrastructure, under direction from the U.S. Embassy, remove old cabling from all Embassy related compounds.

Task List

Fiber Cabling

- Unless otherwise specified, all fiber installed will be Embassy-supplied multi-strand single-mode 9/125 OS2, Single-Armored Single-Jacket, Stranded Loose Tube, Waterproof Outdoor Cable GYTA terminated with LC Connectors.
- Using Embassy-leased underground conduit, install, test, and label Embassy-supplied 24 multi-strand fiber originating from the primary telecommunications room of the U.S. Embassy Compound to the primary telecommunications room at the U.S. Ambassador's Residence
- Using Embassy-leased underground conduit, install, test, and label Embassy-supplied 24 multi-strand fiber originating from the primary telecommunications room of the U.S. Embassy to the primary telecommunications room at **12 Floor** Sindhorn Building
- Using Embassy-leased underground conduit, install, test, and label Embassy-supplied 24 multi-strand fiber originating from the primary telecommunications room at **12 Floor Sindhorn Building** to the primary telecommunications room at **15 Floor Sindhorn Building**.
- Using Embassy-leased underground conduit, install, test, and label Embassy-supplied 24 multi-strand fiber originating from the primary telecommunications room of the U.S. Embassy to the primary telecommunications room at USAID Building
- Using Embassy-leased underground conduit, install, test, and label Embassy-supplied 24 multi-strand fiber originating from the primary telecommunications room of the U.S. Embassy to the primary telecommunications room at JUSMAG Building
- Install (8) 24 port fiber patch panels in the following locations:
 - (3) in the Primary telecommunications room of the U.S. Embassy Compound
 - (3) in the primary telecommunications room at Sindhorn Building

- (1) in the primary telecommunications room at USAID Building
- (1) in the primary telecommunications room at JUSMAG Building

Deliverables

- Test Results for all installed cable.
- As-Built Diagrams for all installed cable and equipment

[Proposed Cable Schedule](#)

Building One	Building Two	Cable Type	Cable Quantity	Approximate Distance
US Embassy	Sindhorn	Singlemode 9/125 OS2, Single-Armored Single-Jacket, Stranded Loose Tube, Waterproof Outdoor Cable GYTA	24 Strands	1000M
US Embassy	Ambassador's Residence	Singlemode 9/125 OS2, Single-Armored Single-Jacket, Stranded Loose Tube, Waterproof Outdoor Cable GYTA	24 strands	900M
US Embassy	USAID	Singlemode 9/125 OS2, Single-Armored Single-Jacket, Stranded Loose Tube, Waterproof Outdoor Cable GYTA	24 strands	2000M
US Embassy	JUSMAG	Singlemode 9/125 OS2, Single-Armored Single-Jacket, Stranded Loose Tube, Waterproof Outdoor Cable GYTA	24 Strands	3000 M

[Current Cable Schedule](#)

Building One	Building Two	Cable Type	Cable Quantity	Approximate Distance
US Embassy	Sindhorn	Copper	50 pairs	1000M
US Embassy	Sindhorn	Multimode Fiber 62.5	24 Strands	1000M
US Embassy	Ambassador's Residence	Copper	50 pairs	900M
US Embassy	Ambassador's Residence	Multimode Fiber	4 strands	900M
US Embassy	USAID	Single Mode Fiber 9	24 strands	2000M
US Embassy	JUSMAG	Single Mode Fiber 9	12 Strands	3000 M