Attachment B: Statement of Work
City of Fort Lauderdale Radio Communications

Police and Fire Department Portable and Mobile Radios: Programming and Installations will be the responsibility of the City of Fort Lauderdale.

Consolette Radios:

Police Department Building - Install 5-New & 2-MCD500 Remotes

EOC Building - Install 7-New Radios w/Combiner & 7-MCD500 Remotes

Utilities Building - Install 7-New Radios w/Combiner & 7-MCD500 Remotes

Fire Station #2 - Install 1-New Radio 2-Floor Office

Police Department Building - Install 3-New Radios (7/800), 1New Radio (7/800 & VHF), 1 New Radio (7/800 & UHF) & 2-MCD500 Remotes:

- Remove the 5-existing 800MHz Consolettes in the 3-floor Motorola RF Equipment room.
- Install 5-new APX Consolettes ((3) 7/800, (1) 7/800/VHF & (1) 7/800/UFH) Consolettes in the 3-floor Motorola RF Equipment room.
- Re-interface these radio to the three TTY Dispatch (MIP5000 Ops).
- Replace the five old 800MHz antennas with 7/800MHz Yagi antennas and PolyPhaser on the tower at same location reusing the existing ½" coax cable and re-sweep the RF cables.
- Replace the one VHF old antenna with new VHF Omni antenna and PolyPhaser on the tower at same location reusing the existing ½" coax cable and re-sweep the RF cables.
- Replace the one VHF old antenna with new UHF Omni antenna and PolyPhaser on the tower at same location reusing the existing ½" coax cable and re-sweep the RF cables.
- Install two new MCD5000 remotes in Real Time Crime Center Dispatch interfaced to one new HP Switch.
- Install a 1-new fiber link from the RTC Dispatch to the 3-floor Motorola RF room.

Task	DESCRIPTION

Quote valid for 120 days

All work performed during normal business hours of Monday – Friday 8AM to 5PM

150ft Fiber Link	Estimated 150ft (6-stran fiber cable) with ST connector installed, install in 1" Fiber In-Duct, X2 19" rack panels, X2 5meeter jumper ST to LC (installed under computer floor from CEB room to RTC Dispatch)
2-MCD5000 Remotes	Install with headsets, foot switch and X25ft patch Cat-5 cables
1-Lan Switch	Install LAN SW (in RTC Dispatch)
FSO ST	Program SW network and Update MIP5000
7-Polyphasers	Install new and rework connectors
5-Radios	Re-rack new radios (ac-power, Cat-5 cables, grounds and RF)
7-Antenna work	Tower Crew (3-men) and 7-line sweeps
Old Equipment	Deliver old equip to customer location
Fort Lauderdale Responsible	To program 5-new APX Consolettes

EOC Building - Install 5-New Radios (7/800) w/Combiner, 1 New Radio 7/800 & VHF, 1 New Radio 7/800 &UHF & 7-MCD500 Remotes

- Install 7 new APX Consolettes ((5) 7/800, (1) 7/800/VHF & (1) 7/800UHF) in the Motorola RF Equipment room.
- Install one new 8-port combiner.
- Install two new 7/800MHz Onmi antennas and PolyPhasers on the roof of the EOC Building using customer entry ports, ground bars, and antenna mounts, Install 150ft of new ½" coax cable and connector to Motorola R-56 Standards.
- Install one new VHF Onmi antenna and PolyPhaser on the roof of the EOC Building using customer entry ports, ground bars, and antenna mount, Install 75ft of new ½" coax cable and connector to Motorola R-56 Standards.
- Install two new UHF Onmi antennas and PolyPhasers on the roof of the EOC Building using customer entry ports, ground bars, and antenna mounts, Install 150ft of new ½" coax cable and connector to Motorola R-56 Standards.
- Install seven new MCD5000 remotes in EOC Dispatch interfaced to one new HP Switch.
- Install a 1-new fiber link from the EOC Dispatch to the Motorola RF room.

Task	DESCRIPTION
150ft Fiber Link	Estimated 150ft (6-stran fiber cable) with ST connector installed, install in 1" Fiber In-Duct, X2 19" rack panels, X2 5meeter jumper ST to LC (installed in customer provided pipe path between RF room to EOC Dispatch
7-MCD5000 Remotes	Install with headsets, foot switch and X25ft patch Cat-5 cables
2-Lan Switch	Install 2-LAN SW (equipment room and dispatch)
FSO ST	Program SW network
5-Polyphasers	Install new and rework connectors
7-Radios	New radios (ac-power, Cat-5 cables, grounds and RF) and deliver old equip to customer
5-Antenna work	FSO to install (350-ft) 1/2" LDF coax cable, antennas will be install on customer existing antenna mounts, use customer existing cable path and ground system for PolyPhasers and Ground Kits.
Combiner for 7-	Install combiner and 1/4" superflex RF cable between 7-radios and combiner

Quote valid for 120 days

All work performed during normal business hours of Monday – Friday 8AM to 5PM

Radios	
Old Equipment	Deliver old equip to customer location
Fort Lauderdale Responsibility	To program 7-new Consolette radios
Fort Lauderdale Responsibility	To provide 7-ft equipment rack

Utilities Building - Install 7-New Radios (7/800) w/Combiner & 7-MCD500 Remotes

- Remove the 7-existing 800MHz Consolettes in the Utilities Tower Site.
- Install 7-new APX 7/800MHz Consolettes in the Utilities Tower Site.
- Re-interface these radio to the three Utilities Dispatch (MIP5000 Ops).
- Replace the two old 800MHz antennas with 7/800MHz Yagi antennas and PolyPhaser on the tower at same location reusing the existing ½" coax cable and re-sweep the RF cables.

Task	DESCRIPTION
FSO ST	Update MIP5000
2-Polyphasers	Install new and rework connectors
5-Radios	Re-rack new radios (ac-power, Cat-5 cables, grounds and RF) and deliver old equip to customer
2-Antenna work	Tower Crew (3-men) and 2-line sweeps
Combiner for 7-Radios	Install combiner and 1/4" superflex RF cable between 7-radios and combiner
Old Equipment	Deliver old equip to customer location
Fort Lauderdale Responsibility	To program 7-new Consolette Radios

FTL FIRE STSTION #2 - Install 1-New Radio (7/800) 2-FLOOR OFFICE

- Remove 1-existing 800MHz Consolette on the 2-floor fire office.
- Install 1-new APX 7/800MHz Consolette on the 2-floor fire office.
- Install new Mag-Mount antenna 7/800 MHz.

Task	DESCRIPTION
1-Radio	Install one new APX 7/800 Consolette
1-Mag-Antenna in Drop Ceiling	Mag Mount Antenna with 3db gain whip, N-Male Connector
Old Equipment	Deliver old equip to customer location
Fort Lauderdale	To program 7-new Consolette Radios

NOTE: *Motorola is not programming the new consolette radios.*

Customer Responsibilities to provide the following items:

Quote valid for 120 days

All work performed during normal business hours of Monday – Friday 8AM to 5PM

- Customer will program radio and test radio.

Assumptions / Comments:

- This project will be considered complete upon installation and optimization.
- All installation efforts will be done in accordance with Motorola's R56 Quality Standards, with consideration given to existing conditions.
- Motorola will perform all work and tasks required to implement and optimize the new equipment supplied by this contract. All manufacturers' recommendations will be strictly adhered to for the assembly of this equipment.
- Motorola has identified in the equipment proposal all equipment required to implement the outlined system. If the Customer desires to supply substitute equipment, said equipment must be mutually approved by Motorola and Fort Lauderdale, as being compatible with the overall system design and integrity.
- Motorola will commence work at the customer location when all equipment has been received, all pre-tests have been performed, and the site is ready for equipment to be installed. The start of this work will be coordinated with the customer project manager. Normal installation costs have been quoted in this proposal, however, any changes to the physical system's final layout or design may require a Change Order of this Statement of Work.
- Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost or time required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order. Neither Party is obligated to perform requested changes unless both Parties execute a written change order.
- All work will be done during normal working hours Monday through Friday (8 – 5 PM)

System Impact:

- There should be not impact to the subscribers or field units.

Attachment B Statement of Work Pricing Summary:

Police Department	
FSO Tech Labor	$ 11,575.00
FSO Parts	$ 6,650.00
EOC	
FSO Tech Labor	$ 22,140.00
FSO Parts (RF jumpers & grounding hardware only)	$ 3,435.00
Utilities	
FSO Tech Labor	$ 8,900.00
FSO Parts (RF jumpers & grounding hardware only)	$ 4,700.00
Fire Station #2	
FSO Tech Labor	$ 600.00
FSO Parts (RF jumpers & grounding hardware only)	$ -
Total:	**$ 58,000.00**

Quote valid for 120 days

All work performed during normal business hours of Monday – Friday 8AM to 5PM