

CIMS Boston 2015 Upgrade Proposal Phase 1

Contents:

- Project Goals
- Site Considerations
- Proposed Solution
- Deployment
- Maintenance & Service
- Proposal Itemized

CIMS Boston 2015 Upgrade Proposal Phase 1

Project Goals:

To upgrade all of the existing legacy Boston Police security cameras and antennas that were installed between 2004 and 2011. The overall goal is to reach 1080p HD resolution coupled with frame rates of 30fps. The existing video servers have been previously installed and are calculated within the same resolution and frame rate parameters to achieve state mandated video recording of 30 days retention. This upgrade will enhance video quality to monitor and record future incidents as well as assist in reaching the ultimate goal of providing an added asset to investigations and possible criminal prosecutions.

Key Objectives:

1. Upgrade cameras, antennas, and servers to achieve audit recommendations
2. Increase bandwidth to achieve quality resolution and frame rates for post forensic analysis
3. Replace equipment that has reached end of life
4. Provide necessary maintenance which will be minimal

Site Considerations:

Upon several visits to the site, the following points were collected:

1. Cameras and antennas will be upgraded with existing infrastructure
2. Antenna paths have already been constructed and configured
3. Some sites have been upgraded with new cameras
4. Low cost of new antenna technology has lowered original estimates for previous cost of upgrades

CIMS Boston 2015 Upgrade Proposal Phase 1

The Proposed Solution:

LAN-TEL will install a combination of outdoor-rated DVTEL security cameras and Ubiquiti wireless transmission devices to connect all new cameras back to existing Boston Police servers . All cameras will be recorded on existing DVTEL software which as already ben configured on the new enterprise class servers. Site costs related to construction will be minimized by offsite pre-construction. The time for completion will be seamless and fast to provide a fully operational system. Below is a picture of the actual assembly already being deployed around other areas of Boston which is monitored by Boston Police Department.



LAN-TEL & DVTEL

CIMS Boston 2015 Upgrade Proposal Phase 1

The cameras, made by DVTEL, are rugged and proven reliable in and around the City of Boston as well as in many other cities and towns in Massachusetts. Other large cities, such as Los Angeles and Baltimore, have been using DVTEL technology for almost 10 years.

Coverage:

QTY:	VENDOR	PART#	Description:	UNIT COST	EXT.
22	DVTEL	CP-4221-301	Dvtel HD 30 x Zoom CP 4221-201	\$2,574.00	\$56,628.00
22	MER	BW/SL16147	NEMA Enclosure 16 x 14	\$286.00	\$6,292.00
22	NETGEAR		5 port Gig switch	\$65.00	\$1,430.00
22	ALTRONIX	T2428175	24 v Power Supplies	\$52.00	\$1,144.00
22	DVTEL	CX-ARMX-1	Dvtel Bracket Arm	\$68.64	\$1,510.08
120	DVTEL	CX-F150-0	1/12 Aluminum Pipe MOUNT	\$28.60	\$3,432.00
0	DVTEL	LAT-EN-CHAN	Camera Licenses	\$160.88	\$0.00
2	fisher	FP283A-1-048-NNN	PHOTO ADAPTERS	\$143.00	\$286.00
60	UBIQUITY	NSM5 US	ANTENNAS	\$130.00	\$7,800.00
1	LABOR			\$29,468.00	\$29,468.00
1			HARDWARE	\$130.00	\$130.00
0					
					\$108,120.08

Deployment:

LAN-TEL employs a large crew of union-based field installation technicians. The team of LAN-TEL employees, who currently manage the existing Boston Police Department system as well as the systems in the surrounding cities of Winthrop, Revere, Everett, Chelsea, Somerville, Brookline, Milton, and Quincy, will be responsible for deploying the cameras for this system wide upgrade project. The team will utilize a company owned bucket trucks to assist with mounting all cameras to the desired pole locations. LAN-TEL is familiar with the jurisdiction of local authorities and can work with the authorities to provide site access and traffic control to allow for a safe system deployment.

Cameras will be aligned and focused to cover the existing areas of interest and the corresponding wireless antenna will be adjusted and tuned to transmit on established paths of transmission. All field wiring will be dressed for outdoor environment and comply with local codes.

Maintenance and Service:

Upon completion of this total upgrade, the system is designed to be low maintenance due to the proposed electronics which are all solid state with minimal moving parts. In accordance with Massachusetts State Contract FAC64, there will be a one year warranty on the parts and labor provided for this upgrade..

The service provides real-time monitoring of all connected cameras. A system health monitoring tool is used to notify if any abnormalities occur. LAN-TEL technicians will be deployed to remedy any issues to ensure all cameras are running at all times.

CIMS Boston 2015 Upgrade Proposal Phase 1

Date: August 26, 2015

To: Andrew Murphy
Office of Emergency Management
Metro Boston Homeland Security Region
City Hall, Boston MA

From: Eric Jophnson
Lan-Tel Communications Inc.
1400 Providence Highway
Suite 2000
Building 2
Norwood, Ma. 02062
(Ph) 617-413-2148
(Fax) 781-551-8667
ejohnson@lan-tel.com

Re: Critical Infrastructure Monitoring System Boston Police 2015 Upgrade Proposal

LAN-Tel is pleased to submit the attached proposal. This is based on the information, instruction and requirements mutually reviewed. This proposal will include the installation of the required monitors upgrade.

I am confident you will find our quote to be complete in terms of scope, and compliance, with FAC 64 as well as consistent with information received.

If you have any questions, please call me at (781) 352-4056, or simply e-mail me at ejohnson@lan-tel.com

We look forward to reviewing our proposal with you and thank you again for your continued consideration of LAN-TEL Communications, Inc.

Quote Summary:

LAN-TEL Communications, Inc.'s lump sum quotes include the supply of all labor, cable, coring, required equipment, project management, insurances and permits for successful installation of the equipment reviewed and stated herein.

CIMS Boston 2015 Upgrade Proposal Phase 1

CIMS Boston 2015 Upgrade Proposal

Provide, Install and program the following :

LOCATION	CAMERA	ANTENNA
Oak / Harrison	X	X Phase 2
Tyler St & Oak St	X	X Phase 3
Knapp St	X	X Phase 3
Wash / LaGrange		X Phase 3
Kneeland St	X	X Phase 3
33 Harrison	X	X phase 3
Wash/Summer	X	Phase 1
Ritz A	X	X Phase 3
Beacon-Charles 2	X	X Phase
1 Beacon	X	X Phase 1
45 High	X	X Phase 3
State & Congress		X Phase 3
Tremont-Cambridge		X Phase 3
City Hall	X	B Phase 1
Charles A	X	X Phase 3
Charles B	X	Phase 3
LaFarge S	X	X Phase
LaFarge N	X	Phase 3
Dudley-Warren 1	X	Phase 1
Dudley- Warren 2	X	X Phase 1
Dudley- BH	X	X Phase 1
BH-W Cottage	X	X Phase 2
BH-Quincy	X	X Phase 1
BH-Warren	X	X Phase 1
BH-Washington	X	X Phase 2
BH-Seaver	X	X Phase1
Seaver-Humboldt 1	X	X Phase1
Seaver-Humboldt 2	X	Phase 1
Columbia-Washington	X	X Phase 2
Columbia- Geneva	X	X Phase 2
Columbia- Quincy	X	X Phase 2
Columbia- Hancock	X	X Phase 2
Columbia-Dudley	X	X Phase1
BH Am. Legion		X Phase 2

CIMS Boston 2015 Upgrade Proposal Phase 1

BH-Talbot 3	X	X Phase1
BH-Morton 1	X	X Phase1
BH-Woodhaven	X	X Phase1
BH-Babson-		X Phase 2
BH-River		X Phase 2
Morton-Harvard		X Phase 2
Morton-Norfolk	X	X Phase 2
Morton-Selden	X	X Phase1
Morton-Gallivan	X	X Phase 2
Talbot-Bernard	X	X Phase 2
Columbia-Mass Ave-		X Phase 3
Dot.Ave - Columbia		X Phase 2
Dot.Ave-Savin Hill	X	X Phase 2
Dot.Ave - Freeport	X	X Phase 2
Dot.Ave- Adams	X	X Phase1
Dot.Ave- Park St	X	X Phase 2
Dot.Ave- Gallivan	X	X Phase 2
Talbot Welles	X	X Phase 2
Wash-Talbot	X	X Phase 2
Wash-Melville	X	X Phase 2
Bowdoin-Wash	X	X Phase1
Bowdoin-Hamilton	X	
Bowdoin-Quincy	X	X Phase1
LI Water Tower 1	X	X Phase 3
LI Water Tower 2	X	Phase 3
Excelon East	X	Phase 3
Excelon West	X	Phase 3
Seaport South	X	Phase 3
Wash-School JP	X	X Phase 2
Bio Lab Garage North	X	X Phase 2
Bio Lab Garage West	X	X Phase 2
609 Albany St	X	X Phase 2
BU Med Center	X	X Phase 3
Mass -Columbus	X	X Phase1
Mass -St. Botolph	X	X Phase 3
Buckminster 1	X	Phase 3
Buckminster 2	X	Phase 3
Lennox -Tremont	X	X Phase 3
St Marys-Beacon	X	X Phase 3
BU Bookstore		X Phase 3
Comm-Lake St		X Phase 1
Comm -South St		X Phase 1

CIMS Boston 2015 Upgrade Proposal Phase 1

Comm -CH Hill Ave		X Phase 1
C Hill Ave -Beacon		X Phase 3
St James -Dart.		X Phase 1
St James-Clarendon		X Phase 1
St James -Berkely		X Phase 1
Centre -Columbus	X	X Phase 1

22 Pairs of antennas are for backhauls and associated secondary hops to reach BONET HUBS

TOTAL COST TO PERFORM WORK: \$108,120.08

Qualifications:

1. Normal working hours are between 7:00AM and 4:00PM Monday through Friday, excluding holidays, unless otherwise directed, with premium labor adjustments applied per approved change order protocol.
2. All security work is to be coordinated and completed by LAN-TEL.
3. We assume all conduits, coring, sleeves, workboxes, floor boxes, poke-thrus with trim flanges, grounding backbone & bus bars, power, and rubbish removal from the central sweep point will be completed by LAN-Tel.
4. We shall fire-stop and seal only those sleeves, conduits, cores, utilized by LAN-TEL for the work specified.
5. We shall provide a one year product warranty under FAC64 against defects and on overall craftsmanship, starting from the date of substantial completion.
6. Warranty does not include any repairs of equipment damaged by vandalism, misuse, or "Acts of God".
7. Underground utilities are to be marked and located by the owner. LAN-Tel will not be responsible for any underground utilities improperly marked.
8. Job permits are included in the total proposal cost.
9. Full and uninterrupted access to all the work locations is required.
10. This proposal is in effect for 60 days unless otherwise extended by LAN-Tel.

LAN-Tel Communications, Inc. CITY OF BOSTON

By **ERIC JOHNSON**

By: _____

Date **8/26/2015**

Date: _____

LAN-TEL & DVTEL

CIMS Boston 2015 Upgrade Proposal Phase 2

Contents:

- Project Goals
- Site Considerations
- Proposed Solution
- Deployment
- Maintenance & Service
- Proposal Itemized

CIMS Boston 2015 Upgrade Proposal Phase 2

Project Goals:

To upgrade all of the existing legacy Boston Police security cameras and antennas that were installed between 2004 and 2011. The overall goal is to reach 1080p HD resolution coupled with frame rates of 30fps. The existing video servers have been previously installed and are calculated within the same resolution and frame rate parameters to achieve state mandated video recording of 30 days retention. This upgrade will enhance video quality to monitor and record future incidents as well as assist in reaching the ultimate goal of providing an added asset to investigations and possible criminal prosecutions.

Key Objectives:

1. Upgrade cameras, antennas, and servers to achieve audit recommendations
2. Increase bandwidth to achieve quality resolution and frame rates for post forensic analysis
3. Replace equipment that has reached end of life
4. Provide necessary maintenance which will be minimal

Site Considerations:

Upon several visits to the site, the following points were collected:

1. Cameras and antennas will be upgraded with existing infrastructure
2. Antenna paths have already been constructed and configured
3. Some sites have been upgraded with new cameras
4. Low cost of new antenna technology has lowered original estimates for previous cost of upgrades

CIMS Boston 2015 Upgrade Proposal Phase 2

The Proposed Solution:

LAN-TEL will install a combination of outdoor-rated DVTEL security cameras and Ubiquiti wireless transmission devices to connect all new cameras back to existing Boston Police servers . All cameras will be recorded on existing DVTEL software which as already ben configured on the new enterprise class servers. Site costs related to construction will be minimized by offsite pre-construction. The time for completion will be seamless and fast to provide a fully operational system. Below is a picture of the actual assembly already being deployed around other areas of Boston which is monitored by Boston Police Department.



LAN-TEL & DVTEL

CIMS Boston 2015 Upgrade Proposal Phase 2

The cameras, made by DVTEL, are rugged and proven reliable in and around the City of Boston as well as in many other cities and towns in Massachusetts. Other large cities, such as Los Angeles and Baltimore, have been using DVTEL technology for almost 10 years.

Coverage:

QTY:	VENDOR	PART#	Description:	UNIT COST	EXT.
20	DVTEL	CP-4221-301	Dvtel HD 30 x Zoom CP 4221-201	\$2,574.00	\$51,480.00
20	MIER	BW/SL16147	NEMA Enclosure 16 x 14	\$286.00	\$5,720.00
20	NETGEAR		5 port Gig switch	\$65.00	\$1,300.00
20	ALTRONIX	T2428175	24 v Power Supplies	\$52.00	\$1,040.00
20	DVTEL	CX-ARMX-1	Dvtel Bracket Arm	\$68.64	\$1,372.80
0	DVTEL	CX-F150-0	1/12 Aluminum Pipe MOUNT	\$28.60	\$0.00
0	DVTEL	LAT-EN-CHAN	Camera Licenses	\$160.88	\$0.00
0	fisher	FP283A-1-048-NNN	PHOTO ADAPTERS	\$143.00	\$0.00
60	UBIQUITY	NSM5 US	ANTENNAS	\$130.00	\$7,800.00
1	LABOR			\$29,468.00	\$29,468.00
0			HARDWARE	\$130.00	\$0.00
0					
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Deployment:

LAN-TEL employs a large crew of union-based field installation technicians. The team of LAN-TEL employees, who currently manage the existing Boston Police Department system as well as the systems in the surrounding cities of Winthrop, Revere, Everett, Chelsea, Somerville, Brookline, Milton, and Quincy, will be responsible for deploying the cameras for this system wide upgrade project. The team will utilize a company owned bucket trucks to assist with mounting all cameras to the desired pole locations. LAN-TEL is familiar with the jurisdiction of local authorities and can work with the authorities to provide site access and traffic control to allow for a safe system deployment.

Cameras will be aligned and focused to cover the existing areas of interest and the corresponding wireless antenna will be adjusted and tuned to transmit on established paths of transmission. All field wiring will be dressed for outdoor environment and comply with local codes.

Maintenance and Service:

Upon completion of this total upgrade, the system is designed to be low maintenance due to the proposed electronics which are all solid state with minimal moving parts. In accordance with Massachusetts State Contract FAC64, there will be a one year warranty on the parts and labor provided for this upgrade..

The service provides real-time monitoring of all connected cameras. A system health monitoring tool is used to notify if any abnormalities occur. LAN-TEL technicians will be deployed to remedy any issues to ensure all cameras are running at all times.

CIMS Boston 2015 Upgrade Proposal Phase 2

Date: August 26, 2015

To: Andrew Murphy
Office of Emergency Management
Metro Boston Homeland Security Region
City Hall, Boston MA

From: Eric Jophnson
Lan-Tel Communications Inc.
1400 Providence Highway
Suite 2000
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Quote Summary:

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CIMS Boston 2015 Upgrade Proposal Phase 2

CIMS Boston 2015 Upgrade Proposal

Provide, Install and program the following :

LOCATION	CAMERA	ANTENNA
Oak / Harrison	X	X Phase 2
Tyler St & Oak St	X	X Phase 3
Knapp St	X	X Phase 3
Wash / LaGrange		X Phase 3
Kneeland St	X	X Phase 3
33 Harrison	X	X Phase 3
Wash/Summer	X	Phase 1
Ritz A	X	X Phase 3
Beacon-Charles 2	X	X Phase
1 Beacon	X	X Phase 1
45 High	X	X Phase 3
State & Congress		X Phase 3
Tremont-Cambridge		X Phase 3
City Hall	X	B Phase 1
Charles A	X	X Phase 3
Charles B	X	Phase 3
LaFarge S	X	X Phase 3
LaFarge N	X	Phase 3
Dudley-Warren 1	X	Phase 1
Dudley- Warren 2	X	X Phase 1
Dudley- BH	X	X Phase 1
BH-W Cottage	X	X Phase 2
BH-Quincy	X	X Phase 1
BH-Warren	X	X Phase 1
BH-Washington	X	X Phase 2
BH-Seaver	X	X Phase1
Seaver-Humboldt 1	X	X Phase1
Seaver-Humboldt 2	X	Phase 1
Columbia-Washington	X	X Phase 2
Columbia- Geneva	X	X Phase 2
Columbia- Quincy	X	X Phase 2
Columbia- Hancock	X	X Phase 2
Columbia-Dudley	X	X Phase1
BH Am. Legion		X Phase 2

CIMS Boston 2015 Upgrade Proposal Phase 2

BH-Talbot 3	X	X Phase1
BH-Morton 1	X	X Phase1
BH-Woodhaven	X	X Phase1
BH-Babson-		X Phase 2
BH-River		X Phase 2
Morton-Harvard		X Phase 2
Morton-Norfolk	X	X Phase 2
Morton-Selden	X	X Phase1
Morton-Gallivan	X	X Phase 2
Talbot-Bernard	X	X Phase 2
Columbia-Mass Ave-		X Phase 3
Dot.Ave - Columbia		X Phase 2
Dot.Ave-Savin Hill	X	X Phase 2
Dot.Ave - Freeport	X	X Phase 2
Dot.Ave- Adams	X	X Phase1
Dot.Ave- Park St	X	X Phase 2
Dot.Ave- Gallivan	X	X Phase 2
Talbot Welles	X	X Phase 2
Wash-Talbot	X	X Phase 2
Wash-Melville	X	X Phase 2
Bowdoin-Wash	X	X Phase1
Bowdoin-Hamilton	X	
Bowdoin-Quincy	X	X Phase1
LI Water Tower 1	X	X Phase 3
LI Water Tower 2	X	Phase 3
Excelon East	X	Phase 3
Excelon West	X	Phase 3
Seaport South	X	Phase 3
Wash-School JP	X	X Phase 2
Bio Lab Garage North	X	X Phase 2
Bio Lab Garage West	X	X Phase 2
609 Albany St	X	X Phase 2
BU Med Center	X	X Phase 3
Mass -Columbus	X	X Phase1
Mass -St. Botolph	X	X Phase 3
Buckminster 1	X	Phase 3
Buckminster 2	X	Phase 3
Lennox -Tremont	X	X Phase 3
St Marys-Beacon	X	X Phase 3
BU Bookstore		X Phase 3
Comm-Lake St		X Phase 1
Comm -South St		X Phase 1

CIMS Boston 2015 Upgrade Proposal Phase 2

Comm -CH Hill Ave		X Phase 1
C Hill Ave -Beacon		X Phase 3
St James -Dart.		X Phase 1
St James-Clarendon		X Phase 1
St James -Berkely		X Phase 1
Centre -Columbus	X	X Phase 1

22 Pairs of antennas are for backhauls and associated secondary hops to reach BONET HUBS

TOTAL COST TO PERFORM WORK: \$98,180.80

Qualifications:

1. Normal working hours are between 7:00AM and 4:00PM Monday through Friday, excluding holidays, unless otherwise directed, with premium labor adjustments applied per approved change order protocol.
2. All security work is to be coordinated and completed by LAN-TEL.
3. We assume all conduits, coring, sleeves, workboxes, floor boxes, poke-thrus with trim flanges, grounding backbone & bus bars, power, and rubbish removal from the central sweep point will be completed by LAN-Tel.
4. We shall fire-stop and seal only those sleeves, conduits, cores, utilized by LAN-TEL for the work specified.
5. We shall provide a one year product warranty under FAC64 against defects and on overall craftsmanship, starting from the date of substantial completion.
6. Warranty does not include any repairs of equipment damaged by vandalism, misuse, or "Acts of God".
7. Underground utilities are to be marked and located by the owner. LAN-Tel will not be responsible for any underground utilities improperly marked.
8. Job permits are included in the total proposal cost.
9. Full and uninterrupted access to all the work locations is required.
10. This proposal is in effect for 60 days unless otherwise extended by LAN-Tel.

LAN-Tel Communications, Inc. CITY OF BOSTON

By **ERIC JOHNSON**

By: _____

Date **8/26/2015**

Date: _____

LAN-TEL & DVTEL

CIMS Boston 2015 Upgrade Proposal Phase 3

Contents:

- Project Goals
- Site Considerations
- Proposed Solution
- Deployment
- Maintenance & Service
- Proposal Itemized

CIMS Boston 2015 Upgrade Proposal Phase 3

Project Goals:

To upgrade all of the existing legacy Boston Police security cameras and antennas that were installed between 2004 and 2011. The overall goal is to reach 1080p HD resolution coupled with frame rates of 30fps. The existing video servers have been previously installed and are calculated within the same resolution and frame rate parameters to achieve state mandated video recording of 30 days retention. This upgrade will enhance video quality to monitor and record future incidents as well as assist in reaching the ultimate goal of providing an added asset to investigations and possible criminal prosecutions.

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CIMS Boston 2015 Upgrade Proposal Phase 3

The Proposed Solution:

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LAN-TEL & DVTEL

CIMS Boston 2015 Upgrade Proposal Phase 3

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Coverage:

QTY:	VENDOR	PART#	Description:	UNIT COST	EXT.
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CIMS Boston 2015 Upgrade Proposal Phase 3

Date: August 26, 2015

To: Andrew Murphy
Office of Emergency Management
Metro Boston Homeland Security Region
City Hall, Boston MA

From: Eric Jophnson
Lan-Tel Communications Inc.
1400 Providence Highway
Suite 2000
Building 2
Norwood, Ma. 02062
(Ph) 617-413-2148
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CIMS Boston 2015 Upgrade Proposal Phase 3

CIMS Boston 2015 Upgrade Proposal

Provide, Install and program the following :

LOCATION	CAMERA	ANTENNA
Oak / Harrison	X	X Phase 2
Tyler St & Oak St	X	X Phase 3
Knapp St	X	X Phase 3
Wash / LaGrange		X Phase 3
Kneeland St	X	X Phase 3
33 Harrison	X	X phase 3
Wash/Summer	X	Phase 1
Ritz A	X	X Phase 3
Beacon-Charles 2	X	X Phase
1 Beacon	X	X Phase 1
45 High	X	X Phase 3
State & Congress		X Phase 3
Tremont-Cambridge		X Phase 3
City Hall	X	B Phase 1
Charles A	X	X Phase 3
Charles B	X	Phase 3
LaFarge S	X	X Phase
LaFarge N	X	Phase 3
Dudley-Warren 1	X	Phase 1
Dudley- Warren 2	X	X Phase 1
Dudley- BH	X	X Phase 1
BH-W Cottage	X	X Phase 2
BH-Quincy	X	X Phase 1
BH-Warren	X	X Phase 1
BH-Washington	X	X Phase 2
BH-Seaver	X	X Phase1
Seaver-Humboldt 1	X	X Phase1
Seaver-Humboldt 2	X	Phase 1
Columbia-Washington	X	X Phase 2
Columbia- Geneva	X	X Phase 2
Columbia- Quincy	X	X Phase 2
Columbia- Hancock	X	X Phase 2
Columbia-Dudley	X	X Phase1
BH Am. Legion		X Phase 2

CIMS Boston 2015 Upgrade Proposal Phase 3

BH-Talbot 3	X	X Phase1
BH-Morton 1	X	X Phase1
BH-Woodhaven	X	X Phase1
BH-Babson-		X Phase 2
BH-River		X Phase 2
Morton-Harvard		X Phase 2
Morton-Norfolk	X	X Phase 2
Morton-Selden	X	X Phase1
Morton-Gallivan	X	X Phase 2
Talbot-Bernard	X	X Phase 2
Columbia-Mass Ave-		X Phase 3
Dot.Ave - Columbia		X Phase 2
Dot.Ave-Savin Hill	X	X Phase 2
Dot.Ave - Freeport	X	X Phase 2
Dot.Ave- Adams	X	X Phase1
Dot.Ave- Park St	X	X Phase 2
Dot.Ave- Gallivan	X	X Phase 2
Talbot Welles	X	X Phase 2
Wash-Talbot	X	X Phase 2
Wash-Melville	X	X Phase 2
Bowdoin-Wash	X	X Phase1
Bowdoin-Hamilton	X	
Bowdoin-Quincy	X	X Phase1
LI Water Tower 1	X	X Phase 3
LI Water Tower 2	X	Phase 3
Excelon East	X	Phase 3
Excelon West	X	Phase 3
Seaport South	X	Phase 3
Wash-School JP	X	X Phase 2
Bio Lab Garage North	X	X Phase 2
Bio Lab Garage West	X	X Phase 2
609 Albany St	X	X Phase 2
BU Med Center	X	X Phase 3
Mass -Columbus	X	X Phase1
Mass -St. Botolph	X	X Phase 3
Buckminster 1	X	Phase 3
Buckminster 2	X	Phase 3
Lennox -Tremont	X	X Phase 3
St Marys-Beacon	X	X Phase 3
BU Bookstore		X Phase 3
Comm-Lake St		X Phase 1
Comm -South St		X Phase 1

CIMS Boston 2015 Upgrade Proposal Phase 3

Comm -CH Hill Ave		X Phase 1
C Hill Ave -Beacon		X Phase 3
St James -Dart.		X Phase 1
St James-Clarendon		X Phase 1
St James -Berkely		X Phase 1
Centre -Columbus	X	X Phase 1

22 Pairs of antennas are for backhauls and associated secondary hops to reach BONET HUBS

TOTAL COST TO PERFORM WORK: \$107,317.72

Qualifications:

1. Normal working hours are between 7:00AM and 4:00PM Monday through Friday, excluding holidays, unless otherwise directed, with premium labor adjustments applied per approved change order protocol.
2. All security work is to be coordinated and completed by LAN-TEL.
3. We assume all conduits, coring, sleeves, workboxes, floor boxes, poke-thrus with trim flanges, grounding backbone & bus bars, power, and rubbish removal from the central sweep point will be completed by LAN-Tel.
4. We shall fire-stop and seal only those sleeves, conduits, cores, utilized by LAN-TEL for the work specified.
5. We shall provide a one year product warranty under FAC64 against defects and on overall craftsmanship, starting from the date of substantial completion.
6. Warranty does not include any repairs of equipment damaged by vandalism, misuse, or "Acts of God".
7. Underground utilities are to be marked and located by the owner. LAN-Tel will not be responsible for any underground utilities improperly marked.
8. Job permits are included in the total proposal cost.
9. Full and uninterrupted access to all the work locations is required.
10. This proposal is in effect for 60 days unless otherwise extended by LAN-Tel.

LAN-Tel Communications, Inc. CITY OF BOSTON

By **ERIC JOHNSON**

By: _____

Date **8/26/2015**

Date: _____

LAN-TEL & DVTEL