

Request For Information

Chicago CivicNet

Specification No. B09189503

Required for use by:

**City of Chicago
Department of General Services
Bureau of Telecommunications and Information Technology**

This RFI distributed by:

**City of Chicago
(Department of Purchases, Contracts, and Supplies)**

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Bid and Bond Room - Room 301 City Hall
121 North LaSalle Street
Chicago, Illinois 60602

Please provide one original, ten copies, and one disc of your Proposal

**Proposals must be received no later than 4:00 p.m., Chicago time, on
January 19, 2001**

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This document was prepared by:

**Department of General Services
Bureau of Telecommunications and Information Technology
City of Chicago**

November 2000

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1.0 INTRODUCTION

- 1.0.1** The Mayor’s Office, in conjunction with the Mayor’s Council of Technology Advisors, has recommended that the City move forward with an initiative to create a public/private network with the objective of ensuring access to high-performance telecommunications to every residence, business, and institution in the City. (Appendix G)
- 1.0.2** The City intends to have the digital communications infrastructure that it requires for its services, its citizens and its general economy in the 21st Century. The City intends to make real the promises of the 1996 Telecommunications Act. The City intends to take advantage of emerging new technologies, not only to provide enhanced services but also to achieve enhanced cost efficiency. The City intends to become the digital hub of the North American continent.
- 1.0.3** Consequently, to begin moving toward these goals, the City of Chicago, Department of Purchases, Contracts, and Supplies, is issuing this Request for Information (RFI) on behalf of the City of Chicago, the Chicago Public Schools, Chicago Public Libraries, Chicago Housing Authority, City Colleges of Chicago, Chicago Transit Authority, and the Chicago Park District. For the purposes of this document, CivicNet shall be inclusive of the above entities unless the entities are referred to separately and specifically. These services required to create CivicNet are wide ranging, and include those that support E-government. However, this RFI is focused on infrastructure and communication services, and does not include a solicitation for information on E-government applications.
- 1.0.4** The Request for Information is also being issued, in a very real sense, on behalf of all the businesses, institutions, and residents of the City of Chicago and the surrounding area because CivicNet will serve them and be used by them. The City intends to leverage the infrastructure of CivicNet to make advanced telecommunication services accessible by the private sector as well as the government. Through this means, the City intends to bridge the “*digital divide*”, improve the workforce, improve education, and create a “tech-friendly” environment.
- 1.0.5** The entities comprising CivicNet deem it a matter of compelling public interest to establish a first-class telecommunications infrastructure capable of meeting the information, knowledge, and development needs of approximately one thousand six hundred (1,600) locations, as well as the needs of the businesses, institutions, and residents of the region. To accomplish this, the City is seeking to foster a *strategic partnership* that results in the design, construction, implementation, marketing, and operation of an advanced telecommunications optical infrastructure to service the City, its related governmental entities, the institutional sector, and the private sector. The City’s intent is to include small and large companies in this effort.
- 1.0.6** The objectives for the City include long-term controls on telecommunications expenditures, the development of a revenue source for the future, and, most importantly, a boost for the economic vitality of the region and its inhabitants and businesses.
- 1.0.7** With the implementation of CivicNet, the City intends to bridge the “*digital divide*,” improve education and workforce training, and create an environment where high-tech industry can flourish.

1.1 Background

- 1.1.0** The City of Chicago is preparing for the 21st century new economy by leading initiatives in new digital communications policy, requirements, technology, design, and implementation. The policy perspectives for this project as well as these other topics are presented in separate documents referenced in (Appendices E and F) to this document. For example, one indicates the importance of advanced communication infrastructure to a regional economy, and, specifically, the recognition of general access to low-cost high performance broadband as a key economic enabler. Another is focused on emerging business models for providing new forms of digital communication services, primarily data services based on the Internet protocol (IP).
- 1.1.1** The CivicNet initiative is driven first and foremost by real requirements and rapidly growing demands for new and more flexible communications services.
- 1.1.2** This initiative is oriented toward accelerating the deployment of emerging technologies, not for the sake of those technologies, but to meet City requirements. Also, it is focused upon long-term goals so the technologies deployed must be future-proof.

- 1.1.3** This initiative takes into consideration fundamental changes in communications services design and implementation. For example, traditional communications infrastructure and services, which are optimized for voice traffic rather than data, result in restrictive data services, including those related to design, enhanced and new deployment and general capabilities. For example, traditional infrastructure restricts the growth and development of next generation Internet capabilities as well as common access to those capabilities. The new economy requires rapid deployment of high-performance, high-capacity bandwidth to all city locations. Research has demonstrated that communications architecture based on central offices are optimal when approximately eighty percent of traffic is local, which is true for voice services. However, Internet traffic, primarily (over ninety percent) consists of access to remote locations.
- 1.1.4** It is important to note that this initiative expects that changes in demands for communications services and technologies will also require changes in services provisioning business models and in the cost structures for those models. Consequently, the City expects to work in partnership with those selected to work with the City to define new forms of business and financial models that allow all parties to benefit from the fundamental rapid changes occurring within the communications industry. This model assumes that the City will work in close partnership with service providers in an ongoing basis to address these issues.
- 1.1.5** Emerging models for communications infrastructure are based on new customer requirements, including high growth in individual demand and the need for increasing broadband. These new models should be optimized to allow for faster development of new and enhanced services, open architecture, customer management, including interlinking dark fiber networks -- under direct customer control and/or management at any chosen level or combination of levels. To some degree, the new model increasingly is driven by IETF architectural specifications, based on its vision of multiple autonomous peering networks using a common set of protocols, rather than simply ITU architectures based on hierarchies and gateways.
- 1.1.6** One section of this document focuses on core backbone services. See [Section 9](#) of this document for more detail. An assumption within this document is that basic fiber infrastructure is moving toward wide deployment as a common commodity utility.

1.2 Objectives

1.2.0 There are five (5) general objectives that the City would like to see addressed in implementing this infrastructure. First, this initiative addresses needs for a broad range of required services for multiple entities and constituencies, as described below. Second, it is oriented toward emerging communication capabilities rather than current traditional services and technologies. In part, this initiative addresses long-term strategic goals. Third, it presumes the development of new, rather than traditional, business models for service development and support. Fourth, the City intends to expand this initiative to include additional partners, in the public and private sectors. Finally, related to these new business models, a fifth objective is to formulate, in partnership with services providers, new types of cost and pricing structures for the mutual benefit of all parties.

1.2.1 CivicNet must consider the needs of multiple constituencies in multiple locations.

1.2.1.0 The City and the Parks are currently served by a digital Centrex (CityNet) of thirty-five thousand (35,000) lines in eight hundred fifty (850) locations, some of which are switched data lines, in addition to an assortment of T-1, multi-drop, frame relay, ISDN, and other data carriers. Twelve (12) downtown locations are linked via leased SONET services or dark City-owned fiber.

1.2.1.1 The Chicago Public Schools are currently served by an analog Centrex system with eighteen thousand (18,000) lines in six hundred (600) locations, in addition to an assortment of data lines that are primarily T-1 speed lines.

1.2.1.2 The other CivicNet agencies are served by similar leased services. Detailed information on existing networks is provided in [Section 5](#) and in (Appendix A).

1.2.1.3 These networks are experiencing growth in usage and new requirements for expanded geographic coverage, as well as significant increases in bandwidth. An equally significant increase in costs will be inevitable unless alternatives to our current networks can be developed.

1.2.2 The Chicago CivicNet is intended to address the combined needs of these existing networks, to be created by upgrading the technology used in the existing networks and expanding their geographic reach, as well as allowing for improved controls, monitoring, and billing services, all of which can take advantage of economies of scale.

1.2.2.0 The City desires proposals for all hardware, software, and services required to handle the current network demands, utilizing initially the in-place customer premises equipment, as well as to upgrade and operate this network on an ongoing basis. The City does not anticipate that one vendor will be capable of meeting our varied requirements and thus the City is hoping for a solution where multiple players, large and small, will work together to provide a unified solution.

- 1.2.3** These objectives cannot be met using traditional legacy service and support models, some of which date to the nineteenth century. This initiative presumes the development of new, 21st century business models for rapid service development, customization and support.
- 1.2.4** The City is also interested in pursuing additional partnerships to establish a city-wide (or region-wide, as the market dictates), open, switched, digital broadband network infrastructure, to include the leasing of services and/or access (via the leasing of dark fiber, for example). In addition to handling the internal requirements as mentioned in Section 1.2.1, the network infrastructure should be capable of providing voice, data, and video services at a reasonable and competitive cost to other governmental entities, non-profit agencies, institutions, and to other private sector entities.
- 1.2.5** Obviously, meeting these goals will be an incremental process, but the goal of CivicNet is to use current expenditures as leverage to upgrade the City's service levels and expand its geographical coverage. The combined billing for the CivicNet entities is over \$25 million annually. In addition, the value of existing dark fiber, rights of way, and available conduit and duct space owned by the City constitute a significant in-kind contribution toward the construction of the CivicNet infrastructure. Also, other CivicNet partners will provide further investments that will assist in meeting these goals.

2.0 CHICAGO CIVIC NETWORK CONCEPT

This is the Mayor's objective:

"I envision the entire City - residents, businesses, and institutions - using the network to access on-line education programs, video-on-demand services, telecommuting, and on-line community organizing."

2.0.1 The following summarizes the concept being pursued:

2.0.1.0 The City owns, or has access to, resources of significant value that can be used as the foundation of a fiber infrastructure. These resources are summarized in Section 7 and further detail is provided in (Appendices B and C). Examples of resources that could be made available to the City's "partners" in development of CivicNet include the underground freight tunnels downtown, CTA right of way, City-owned fiber already in place, and available duct and conduit that runs throughout much of the City. The City can install conduit and fiber every time a street is opened to lay new water or sewer pipe, etc. As a result, the costs usually associated with building a network in an urban area will be greatly reduced.

2.0.1.1 The City agencies constitute a major user of telecommunications services. Their current combined expenditures, exceeding \$25 million annually, are purchasing leased services. This \$25+ million could be likened to "rent." The City would prefer to be in a position of building equity, with the eventual result being lower or stabilized costs, and at some point a revenue source for the City. Most importantly, CivicNet is seen as a significant boost to Chicago's continued economic development.

2.0.1.2 The City, itself, does not want to be in the business of marketing, wholly financing, and operating a communications company. The City prefers to leave those responsibilities to the experts. However the City does intend to work with communication wholesalers and service providers to insure that its specific requirements are well understood and that those requirements are met. The City will not simply accept generic solutions that do not meet its explicit requirements. The City wishes to benefit from being in an equity position, in a relationship with multiple entities, possibly organized into a public/private consortium, on contract with us to build, market, operate, and manage the network infrastructure.

2.1 Service Guidelines

The following guidelines shall govern the service structure of the proposed network infrastructure:

2.1.0 Equal access - The City expects equal access throughout the network. All information content and service providers requesting access to the network infrastructure shall be treated equally. Facilities, wholesale, and retail services should be made available in a fair, reasonable, and nondiscriminatory fashion.

2.1.1 Open platform - Technical compatibility and interoperability among network providers must be assured. The network must be standards-based, capable of being connected to other private and public networks.

2.1.2 Abundant bandwidth - There must be available capacity beyond current demand, with the vendor responsible for building in the flexibility required for incremental growth as market forces dictate. Irrevocable rights to use (IRUs) should be made available on a reasonable, fair, and nondiscriminatory basis.

2.1.3 Network availability - CivicNet must have the capability to connect to any location throughout the geographical area of the City. Because the City agencies are located in every neighborhood, this becomes a non-issue.

2.1.4 Low Environmental Impact - Development and operation of the network should occur in a manner that minimizes adverse impact on the environment and community.

2.1.5 Application Requirement Considerations For Digital Communications – CivicNet should have characteristics tailored to digital communications for the future supporting high performance data communications.

2.2 Goals for the Network

Through a partnership between the City and the selected vendor(s), the City intends to achieve the following:

2.2.0 Current City services will continue to be cared for, utilizing initially the in-place customer-premises equipment, in as cost-efficient a manner as possible. This could include the use of hybrid solutions for the short and, possibly, mid term, as dictated by economies of scale, payback costs and time frames.

2.2.0.0 For example, the current size of the City's combined networks is too large to be addressed in a one-year implementation. Obviously any solution will be installed in phases and may require a multiple-year approach,

but the City wishes to contract with a provider that can assume responsibility for our entire network, even if, for part of the network, for some period of time, the provider is acting as a (re)seller of existing services until the new optical network can be totally configured.

2.2.1 The new optical infrastructure will be constructed, utilizing the City-owned and City-controlled resources listed in Section 7 to reduce cost.

2.2.1.0 The installation of the new infrastructure would presumably be based on the objective of:

- 1) quickly lowering costs for current and future CivicNet services, and,
- 2) satisfying the demands of the private sector for leasing or otherwise obtaining access and/or services.

2.2.2 ~~The infrastructure will be made by winning vendor(s) through a competitive bid process, including a cost of service bid.~~ The vendor(s) will use their industry expertise in sizing and implementing the network infrastructure and bringing it into service.

2.2.3 Private sector capital will be sought to help finance this incremental installation.

2.2.4 The twenty-five million dollars in annual expenditures that the City agencies spend for current services might place the City in the category of anchor tenant for the development of CivicNet. Revenues from the other users of the infrastructure from the institutional and private sectors will likewise be directed to the winning vendor(s) who partner with the City in this endeavor. To work, this must be a win-win for all parties involved.

2.2.5 The City expects to realize the following goals by implementing the telecommunications infrastructure:

2.2.5.0 Minimize the adverse financial impact of technological service upgrades on the City agencies.

2.2.5.1 Ensure that the City receives fair compensation for the use of public property as appropriate under state and federal telecommunications law.

2.2.5.2 Provide for the optimal use of public right-of-way, avoiding redundant infrastructure, and minimizing disruption to property and the public streets by providing a common, universally accessible telecommunications infrastructure, with the understanding that nothing herein shall prevent the use of the City's public ways by third parties consistent with and subject to applicable City regulation.

2.2.5.3 Ensure that residents, businesses, and institutions will have universal access to reliable, high-speed, high-performance telecommunications services at the lowest feasible, competitive cost via an optical network infrastructure. The City wishes to encourage use of the public rights of ways toward this end.

2.2.5.4 Encourage economic development by stimulating the growth of the regional economy and enabling businesses to effectively participate in the global economy.

2.2.5.5 Ensure that the maximum number and variety of telecommunications services are made available through effective competition.

3.0 BUSINESS CASE

3.1 The Challenge

- 3.1.0** Many cities would like to enjoy the use of a fiber network or infrastructure. A few smaller cities and towns, often those that own the local electric utility, have been able to make this happen, but most larger cities do not yet have in place a fiber infrastructure that reaches every part of the city.
- 3.1.1** Why? Because the business case may not yet have been there to induce private sector capital to invest in the construction. It may be true that “If you build it, they will come.” But, from the bottom line perspective, what if they don’t?
- 3.1.2** Certain entities, on the other hand, are so attractive as business partners that they are literally given fiber by private companies in exchange for the use of valuable resources, usually rights-of-way that significantly lower the cost of installing fiber. Many railroads, rapid transit entities, highway authorities, and municipal utility operators have taken advantage of these opportunities.
- 3.1.3** The City agencies currently have sixteen hundred (1,600) locations that need to be connected in the reasonably near future to a higher-speed network than now exists. Unfortunately, there is no train track running to each of these facilities.
- 3.1.4** So the challenge is: Can a business case be made that justifies the expense of building an infrastructure to service every part of the City of Chicago?
- 3.1.5** For the bottom line to make sense, two things have to work together: The cost of building the infrastructure has to be lowered, and, the opportunity to bring in revenue has to be enhanced.

3.2 General Concept

- 3.2.0** In layman’s terms, it is this:
- 3.2.1** The City agencies are spread throughout our geographical boundaries. The City spends in excess of \$25 million every year on leased services. If the City were to build out a network infrastructure all over the City for our own purposes, it would make sense to let the private sector use that same infrastructure. Merely by connecting all (1,600) of the City’s properties to CivicNet, the network infrastructure would extend to encompass three million City residents and businesses. The City also owns substantial resources that will reduce the cost to build this infrastructure. So, who wants to partner with the City in building a network infrastructure for all of its constituents to use? The City’s leased services could fill the role of anchor tenant in the project, and the extension of the CivicNet infrastructure to the private sector could provide a significantly enhanced revenue opportunity for CivicNet partner/providers.
- 3.2.2** There are a number of roles that different entities might choose to play. Those entities that contribute resources to help make the network a reality would be rewarded accordingly. This could include:
- 3.2.2.0** Providing access to the City with a low-cost means for network construction, possibly in exchange for fiber or other considerations.
 - 3.2.2.1** Providing capital to help finance the project in exchange for long-term use of fiber to selected locations. Examples: Institutions with branches scattered around the City that want to connect them with fiber they control (banks, chain stores, hospital and medical groups, universities).
 - 3.2.2.3** Providing capital to help finance the project in exchange for long-term use of fiber throughout the area. Example: Companies competing for a share of the telecommunications industry. Examples of these companies include service providers, carriers, carriers’ carriers, CLECs, etc.
 - 3.2.2.4** Providing venture capital in exchange for future revenues.

3.3 The Opportunity

The City owns resources that can provide a new and lower cost approach to building high- performance infrastructure that has wide application throughout a major metropolitan area.

3.3.0 Lowering the Cost of the Build

Section 7 contains a description of many of the existing City resources that can be used to build out the CivicNet fiber-based infrastructure. These include:

- 3.3.0.0** City-owned fiber that connects about one hundred (100) City agency locations.

- 3.3.0.1 City-owned fiber that totals several thousand miles, most of it single mode, most of it in prime locations. Recently, fiber has been installed to reach new Police locations and Department of Transportation locations throughout the city.
- 3.3.0.2 The Chicago Transit Authority has extensive rights-of-way. (Appendix B1)
- 3.3.0.3 The extensive network of downtown underground freight tunnels. (Appendix B2)
- 3.3.0.4 The extensive network of four-foot diameter (and larger) storm sewer ducts that are under every neighborhood in the City and are interconnected. (Appendix B3)
- 3.3.0.5 City franchises with utilities and other companies that allow for City use of existing resources, to the extent available and where such use by third parties for governmental and other purposes is permitted.
- 3.3.0.6 City control of the water, sewer, street light, and transportation functions, allowing for conduit to be installed whenever new water pipe, sewer pipe, street improvements, etc. are undertaken. This construction totals hundreds of miles per year – every year.

NOTE: Over one hundred (100) of the largest City locations are already connected by fiber in varying quantities that is not being fully used and is available.

3.3.1 Enhancing Opportunities for Revenue:

- 3.3.1.0 The City wants to increase the business opportunities for communications companies here, and via these means, to increase the business opportunities for *all companies* that can thrive more easily in a leading-edge telecommunications environment.
- 3.3.1.1 Numerous studies show that a growing need for improved communications in Chicago’s neighborhoods is not being met.
- 3.3.1.2 The City wishes to partner with communications and other private sector companies in building out a fiber infrastructure. The City’s own service requirements, over \$25 million annually, can be seen as constituting the role of anchor tenant in the development. The City wants the communications providers to offer wholesale and retail services to the private sector as well, on a fair, reasonable, and nondiscriminatory basis. Revenues from the private sector will be earmarked for the communications providers who make the wholesale and retail services available.
- 3.3.1.3 The City is open to a range of solutions where the needs of both the public and the private sectors may converge. Section 12.9 of this RFI requests suggestions of a financial model(s) outlining one or several approaches your company or entity might choose to make (depending on the role(s) you might choose to play) in the implementation of CivicNet.
- 3.3.1.4 The City strongly encourages each respondent to be creative in the approach to this project.
- 3.3.1.5 The following example outlines **one possible approach** to making CivicNet a reality:

3.3.1.5.0 Partnership (Consortium)

XYZ Corporation proposes a Consortium approach to the basic fiber optic backbone that will be composed of both public and private corporations. The Consortium will be organized as a (not for profit/profit oriented) organization to meet the needs of the Consortium members. Organizations that might choose to join the Consortium could include:

Private Companies:

- Local Exchange Carriers
- Competitive Local Exchange Carriers
- Carriers’ carriers
- Cable TV companies
- Equipment suppliers
- Contractors
- Utilities
- Private companies
- Healthcare organizations

Institutions:

Universities
Hospitals
Not-for-profits
Museums
Governmental entities
Corporations

3.3.1.5.1 Managing Agency

The XYZ Corporation will be the managing partner of the Consortium with the following responsibilities:

Fiber Structure

Market and promote the consortium.

Target markets being proposed for economic development.

Plan the implementation process.

Build the fiber optic backbone structure, utilizing City resources wherever feasible.

Building the structure will include construction, installation, cabling, utilizing varied means of access, etc.

Provide regular maintenance that promotes the reliable operability of the system.

Maintenance will include network, node, and network operation center functionality.

Provide monitoring of the fiber optic system.

Provide an architectural design and outage restoration response that promotes 99.999% reliability within the system.

Municipal Applications (more “sample” language such as might be provided in the eventual solution)

XYZ Corporation has partnered with ABC Corporation to meet the specific needs of the municipal organizations as outlined within this RFI. Attached are proposals that address the building and operating of a fiber optic infrastructure and providing the value added services for the City agencies.

3.3.1.5.2 Public/Private Consortium

The Consortium recognizes that various partners have contributed to CivicNet either monetary or material resources. The following generic financial model illustrates a concept of how the business case can be actualized: (Responders to provide)

Assumptions

System Buildout

Maintenance

Network Operations Center

Outage Restoral Capacity

Marketing and Growth

Market Potential

3.3.2 Varying Levels of Participation are Encouraged

3.3.2.0 The following are examples of the range of responses the City anticipates receiving to this RFI:

- 3.3.2.0.0** Providing access to the City/CivicNet with a low-cost means to build out the network construction, possibly in exchange for fiber or other considerations. This could apply to utility-type companies, among others.
- 3.3.3.0.1** Parties interested in purchasing “condominium” fiber to run to connect selected locations, for the parties’ exclusive use. This could apply to financial institutions, chain stores, universities, healthcare organizations, technology companies, etc.
- 3.3.3.0.2** Providing capital to help finance the project in exchange for long-term use of fiber to selected locations. This could apply to the same entities as above.
- 3.3.3.0.3** Providing capital to help finance the project in exchange for long-term rights to use fiber throughout the area. This could apply to service providers, LECs, CLECs, etc.
- 3.3.3.0.4** Providing venture capital in exchange for future revenues.
- 3.3.3.0.5** Parties interested in leasing fiber and/or services carried over fiber.
- 3.3.3.0.6** Companies interested in supplying certain elements of technology to the project. This could apply to equipment companies, possibly interested in partnering with other entities.
- 3.3.3.0.7** Service providers interested in supplying services to the City and/or to the private sector.
- 3.3.3.0.8** Systems integrators interested in managing all or major pieces of the project.
- 3.3.3.0.9** Construction companies interested in the build-out of the fiber.

4.0 REGISTERING FOR THE RFI

4.0. All prospective CivicNet RFI respondents should complete the mandatory online registration form found at the World Wide Web (WWW) address indicated below:

4.0.1.0 www.chicagocivicnet.net.

4.0.2 By completing the online registration form, each RFI registrant will:

4.0.2.0 Establish itself as a Company of Record for City of Chicago documentation purposes;

4.0.2.1 Gain access to the electronic version of the CivicNet RFI;

4.0.2.2 Gain access to the City of Chicago's Geographic Information System (GIS) maps, which identify the locations of the 1600 City agency's CivicNet sites; (**Note:** This electronic file is **NOT** available in the paper-based RFI document.)

4.0.2.3 Gain access to the Web-based CivicNet RFI Question and Response board. (See [Section 10.2](#))

4.0.3 Any respondent that experiences difficulty accessing any of these CivicNet RFI Web-based files or has questions regarding this process, should contact the City by e-mail at civicnetrfi@cityofchicago.org.

4.0.3.0 Questions related to process and procedure can also be called in to 312-74CIVIC (312-742-4842). Questions concerning the specific contents of this RFI will not be answered over the phone. Content questions must be addressed to the web site.

5.0 EXISTING REQUIREMENTS FOR MUNICIPAL NETWORKS AND SYSTEMS

5.1 City of Chicago

5.1.0 Fiber Optic Infrastructure

The existing City of Chicago fiber optic infrastructure is composed of the following links:

- 5.1.0.0** The E911 system runs throughout the city. At this time, this system is standalone and dedicated to the E911 function. This system will remain in its current form into the future. There are spare fibers available for future use.
- 5.1.0.1** Fiber optic links connect City Hall, the Daley Center and nearby City-occupied office buildings. This network has a dedicated function and will remain in its current form into the future.
- 5.1.0.2** Fiber optic links are being installed to provide coordination of the traffic control system. This system is composed of both multimode and singlemode fiber optic cable. The multimode fiber optic cable is used to link the traffic-signaling network. The singlemode fiber has been installed for future use. In some locations additional duct space has been installed that can support future fiber optic cable. These ducts exist in selected areas within the city.

5.1.1 Telecommunications Facilities

The network serving the City (CityNet) and its five hundred fifty (550) locations (not including Chicago Park District sites) is an Ameritech Digital Centrex, running on three (3) host Nortel DMS-100 switches, located in the Illinois-Dearborn, Monroe, and Wabash central offices. There are seven Remote Line Concentrating Modules (RLCMs), two North of downtown, one West, and four South. Ameritech T-1 lines connect the three host and seven remote switches. A list of the current telephone features are described in (Appendix D).

Typical customer premises equipment (CPE) includes:

- 5.1.1.0** Meridian digital telephones - 5009 series. Most of the digital telephones are in the downtown area.
- 5.1.1.1** Various types of analog telephones, faxes, modems, and teletype interface devices.
- 5.1.1.2** DMS-100 ACD software resides in the Illinois-Dearborn and Wabash central offices. CCMIS installations, along with the corresponding data link to the host DMS-100, along with ACD on Meridian telephones, reside in a number of City locations.
- 5.1.1.3** One AT&T Intuity and several Centigram voicemail/auto attendant systems reside in downtown City facilities, with associated data links, UCDs, and terminal equipment.
- 5.1.1.4** A number of trunks from the Monroe central office are dedicated to feeding into the City's CPE paging system.
- 5.1.1.5** Datapath, a Nortel product, resides in hundreds of locations. Datapath is a switched data service; the CPE comes in two flavors: 19.2kb and 56kb.
- 5.1.1.6** ISDN resides in hundreds of locations.

5.1.2 Data Communications Facilities

- 5.1.2.0** The City's Enterprise Network consists of a switched ATM OC3 (155mbps) backbone running over a SONET OC48 leased private network or City-owned fiber connecting buildings with major points of presence to one another. Each of these sites also has a DS3 circuit for backup connectivity.
- 5.1.2.1** Remote offices with multiple users are connected to the network via T1 (1.5mbps) circuits over a routed backbone. Remote offices with few users are connected to the network via ISDN BRI (56kbps) circuits connected to a shared ISDN PRI. Several sites have recently been installed utilizing Frame Relay running at 56k or T1 speeds brought into the main network via a DS3 circuit.
- 5.1.2.2** The center of the network is located at the Department of Business and Information Service's main office located on the 27th floor of the Daley Center, 50 W. Washington Street. All OC3 services terminate at this location as well as the majority of the T1 and ISDN remote circuits. A backup site is located at City Hall, 121 N. LaSalle Street, which is cross-connected to the Daley Center via City-owned fiber. The ATM DS3 (45mbps) backup circuits from each of the major buildings terminate at the City Hall location.

5.1.3 Video Facilities

5.1.3.0 An ATM network is in place that allows video conferencing and training within the Police Department. This network has been started with five new buildings in various locations. Video conferencing facilities have been constructed in each of these buildings. The same standards used by the State of Illinois have been followed to allow interconnection between the larger municipal community. These standards follow the current ITU standards for video conferencing.

5.1.4 Traffic Control

5.1.4.0 The Chicago Department of Transportation (CDOT) is in the process of linking traffic signals with fiber optics. These links allow the coordination of the traffic regulation and coordination of traffic flow within the City. As this time, the project only links signals in selected areas with multimode fiber in a daisy-chain configuration.

5.1.5 Process Control

5.1.5.0 Various types of control processes take place over slow speed links. This includes a variety of functions such as pump and valve controls.

5.2 Chicago Park District

5.2.0 Telecommunications Facilities

The existing Chicago CityNet System provides telephone service for the two hundred fifty Chicago Park District locations (Appendix A-7). Typical customer premises equipment includes:

5.2.0.0 Meridian digital telephones – 5009 series.

5.2.0.1 AT&T analog telephones, single line and 1A2 key systems

5.2.0.2 Various types of analog telephones, faxes, modems, teletype interface devices.

5.2.0.3 The administrative center at 425 E. McPetridge is linked to their six regional centers via lines provided by Ameritech.

5.3 Chicago Public Schools

5.3.0 Telecommunications Facilities

The Chicago Public Schools six hundred (600) locations are served by an Ameritech analog Centrex system hosted in two (2) Ameritech central offices (Appendix A-2). A variety of customer premise equipment is used to provide telephone service to the end users at each facility:

5.3.0.0 Most of the schools have in place AT&T electronic key systems, such as Merlins and Legends.

5.3.0.1 An AT&T voicemail/auto attendant/IVR is situated at CPS headquarters on Clark Street.

5.3.0.2 Over sixteen thousand (16,000) stations are used to support the communications within the school organization.

5.3.2 Data Communications Facilities

5.3.2.0 The Schools have installed T-1 lines to the local Ameritech central office. A SONET backbone network running at OC3 speed provides aggregation of all the remote links into a central facility. The main facility provides routing of traffic between all of the schools and the Internet. About six hundred sixty (660) T1 lines provide a link between each school and the local connection point to the backbone network.

5.3.2.1 There are mainframe computers located at the Clark Street headquarters.

5.3.3 Video Conferencing and Distance Learning Facilities

5.3.3.0 The Chicago Public Schools has a video conferencing network based upon T1 and ISDN lines. The CPS headquarters is linked to seven (7) remote locations in a star configuration. The links between all schools are constantly connected with off-net access provided by a Madge 200 video switch.

5.4 City Colleges of Chicago

5.4.0 Telecommunications Facilities

5.4.0.0 The City Colleges of Chicago is using a Centrex system provided by Ameritech. Fifteen (15) facilities are supported using over five thousand (5,000) active stations. (Appendix A-4)

5.4.1 Data Communications Facilities

5.4.1.0 The City Colleges of Chicago is composed of an administrative center with fourteen (14) learning centers located throughout the City of Chicago. The colleges have a backbone network based upon ATM technology. Each college campus is connected to the main college administration center on West Jackson Boulevard using T3 lines. A main link to the Internet is supported using a single T3 line to support access for all of the colleges.

5.4.1.1 Two T1 lines are used to provide dial related services for remote access by the administrative and faculty staff.

5.4.2 Video Conferencing and Distance Learning Facilities

5.4.2.0 Video links are centered upon the administrative center with T1 lines running to each of the learning centers. Two (2) additional links connect the colleges with nearby learning establishments including University of Illinois. An ISDN PRI is used to provide dial services to the other video conferencing facilities.

5.5 Chicago Housing Authority

5.5.0 Telecommunications Facilities

5.5.0.0 The Chicago Housing Authority has eighty-four (84) administrative facilities located throughout the city. The typical facility is served by five (5) telephone lines with a total of four hundred twenty (420) lines for these facilities. (Appendix A-5)

5.5.1.0 The two (2) main administrative centers have additional telephone services. Each of the facilities have five hundred (500) voice lines for an additional one thousand (1,000) voice lines. Two (2) T1 lines support the access for the building.

5.5.2.0 The total number of voice lines for the entire CHA is one thousand four hundred twenty (1,420) lines.

5.5.1 Data Communications Facilities

5.5.1.0 The Chicago Housing Authority has eighty-four (84) administrative facilities throughout the city. The typical facility is served by a 56 Kb line with a total of forty-seven (47) lines for these facilities. Twenty-five (25) additional facilities are linked by ISDN lines with three PRI ISDN lines at the main administration building.

5.5.1.1 The two main administrative centers have additional data related services. Each of the facilities have one (1) T1 line. Four (4) remote facilities have leased T1 lines to the main administration center.

5.5.1.2 The total number of data lines for the entire CHA is six (6) T1 lines and forty-seven (47) low speed lines, twenty-five (25) ISDN lines and three (3) ISDN PRI lines.

5.5.2 Video Conferencing and Distance Learning Facilities

5.5.2.0 Video links are not currently in use by the CHA.

5.6 Chicago Transit Authority

5.6.0 Telecommunications Facilities

- 5.6.0.0** The Chicago Transit Authority has an extensive telephone system that supports the communications between all facilities. The major facilities are linked by a system that is composed of a series of PBX systems linked by T1 lines. Smaller facilities, such as the garages, are linked to the main Racine Street location as off-premise extensions. The two main facilities, Racine Street and the Merchandise Mart, have redundant links composed of four (4) T1 lines with a second fiber optic link. (Appendix A-6)
- 5.6.0.1** Remote facilities using OPXS total fifty-two (52) lines with forty-eight (48) linked to the Racine Street facility.
- 5.6.0.2** Fourteen (14) T1 lines link the PBX systems at the remote locations to the Racine Street facility. Four (4) of those T1 lines provide the main link between Racine Street and the Merchandise Mart office. Some of these T1 lines take the form of an ISDN PRI links supporting sixty-nine (69) call paths are any combination of incoming and outgoing calls.
- 5.6.0.3** Ameritech provides incoming trunks to the Merchandise Mart including forty (40) that terminate in an automated attendant and sixteen (16) that are answered by operators at Racine Street. An additional fifteen (15) outgoing trunks are connected to this location.
- 5.6.0.4** Four (4) additional T1 lines run to AT&T to provide toll free services.

Additional trunks are in place at the remote PBX locations. As an example, the Central Warehouse has an ISDN PRI to Ameritech that provides twenty-three (23) bi-directional trunks in addition to the T1 tie line to Racine Street. The trunks to Ameritech can be characterized as follows:

Location	Trunk Count
Central Warehouse	23
Racine Street	136
Merchandise Mart	74
Kedzie Garage	11
IIT Campus	0
Central Warehouse	23
Skokie Rail Shop	23
West Shops	19
North Unit	2
South Unit	2
63 rd Lower Rail Yard	4
74 th & Wood	18
Archer Garage	3
Chicago Avenue Garage	13
North Park Garage	3
Forest Glen Garage	4
103 rd Street Garage	9
South Shops Bus Complex	52

5.6.1 Data Communications Facilities

- 5.6.1.0** The Chicago Transit Authority has a network of low speed data lines established to manage the Automated Fare Collection System. This network is composed of one hundred eighty-three (183) lines running at 9600 bps with all lines running in a radial topology out from the Division Street facility.

5.6.2 Video Conferencing and Distance Learning Facilities

- 5.6.2.0** Video systems are in use at the CTA stations as a security measure.

6.0 NON-CITY GOVERNMENT ENTITIES

6.0.0 The City of Chicago would like to improve its communications with non-profit agencies that do business with the City.

6.1 Model Sites

6.1.0 As a demonstration project to bring the benefits of CivicNet to Chicago's neighborhoods, model sites will be connected to the Connecting Chicago's Communities program at six (6) locations. The sites and current usage are listed in (Appendix A-8).

6.2 Agencies

6.2.0 The agencies fall into two major categories -- delegate agencies and non-profit agencies:

6.2.0.0 Delegate agencies: There are one hundred thirty-three (133) delegate agencies spread throughout the City of Chicago. A list is provided in (Appendix A-9). The City of Chicago contracts with each of these agencies to provide services to their community.

6.3 Non-Profit Agency Interconnection

6.3.0 In each case, the City of Chicago would like to move toward greater connectivity with these agencies to enable greater use of applications to manage contracts, and to expand broadband Internet into Chicago's neighborhoods.

6.4 Non-Profit Agencies Coordinating Entity

6.4.0 CivicNet will be made available to these non-profit agencies. Model sites will be connected in the first phase. All other locations will be afforded the opportunity to join CivicNet. Those agencies that are interested will be asked to provide information to, and work with, a single coordinating entity for the purpose of aggregating their business. This entity will provide a single point of contact for most purposes between the non-profit agencies and the CivicNet service providers.

7.0 EXISTING RESOURCES AVAILABLE TO CIVICNET

7.0.1 The installation of fiber optic cable for CivicNet throughout the City will require access to the City's rights-of-way and other resources. These resources include the following:

7.1 Rights-Of-Way

7.1.1 The City has the option of making rights-of-way available to entities that partner with the City in the development of infrastructure that all parties will be able to utilize. Governments build roads for everyone to use. The City intends to build the digital highway.

7.1.2 Other cable support structures such as poles, pipe and duct space may be available from private companies within the Chicago area. The CivicNet committee understands the value of resources from utilities and other organizations. *To the extent that such organizations have resources they can contribute to the creation of CivicNet, the City encourages such organizations to respond with proposals where such a partnership may be beneficial to all parties involved with CivicNet.*

7.2 Dark Fiber

7.2.0 The City has installed dark single mode fiber as part of current construction projects. In many cases, additional fiber optic cable has been installed that may be available for use. The following sections outline the fiber optic cabling by department.

7.2.1 CTA Fiber

7.2.1.0 Forty-eight (48) fibers are available for city (non-commercial) oriented communications running from the CTA Clark and Lake station in the loop to O'Hare (Blue Line).

7.2.1.1 Ninety-six (96) fibers have been installed on the Red Line between Howard and the Chicago loop.

7.2.1.2 Ninety-six (96) fibers have been installed on the Green Line from Harlem to the Chicago loop.

7.2.1.3 Ninety-six (96) fibers have been installed on the Green line from 63rd and Cottage to the Chicago loop.

7.2.1.4 Sample drawings of each type of facility and samples of the cable installation procedures have been included in (Appendix C-1) to provide insight into the process and requirements when using CTA facilities.

7.2.2 Business Information Services (BIS) Fiber

7.2.2.0 The BIS group has worked with other city agencies to install fiber optic cable between 50 W. Washington (Daley Center) to 121 N. LaSalle (City Hall), 30 N. LaSalle, 33 N. LaSalle, 333 S. State (DePaul Center) and 400 S. State (Harold Washington Library). This fiber is currently being used to support data links for the internal city network. Some single mode fiber could be available between these locations.

7.2.3 E911 Fiber

7.2.3.0 The E911 system has fiber optics that runs to the majority of the police and fire stations throughout the city. About fifteen percent (15%) of the fiber runs through ducts of commercial entities such as SBC/Ameritech. The majority of this fiber cable is currently being used for communications or is allocated as maintenance spares.

7.2.4 CDOT and DSS fiber

7.2.4.0 CDOT (Chicago Department of Transportation) and DSS (Department of Streets and Sanitation) are working together to install fiber optic cable to control the traffic signal system. This system was originally based upon multimode fiber that is run in a daisy-chained manner between controllers. Newer construction includes spare conduit and single mode cable in addition to the multimode fiber cable that is required by the traffic system. All of the single mode fiber cable is available for use by CivicNet.

7.3 Available Duct and Conduit Space

7.3.0 The City has conduit and duct space that is available throughout the City facilities. These conduits and ducts may provide space to install additional cable or provide a path where additional conduit may be installed. The following sections describe the existing conduit and duct spaces.

7.3.1 CDOT

7.3.1.0 The Chicago Freight tunnel system runs below the Chicago loop area in a grid framework that closely follows the streets. Tunnels are available for the placement of cable noting that only six areas allow access under the river.

7.3.1.1 A summary diagram of the tunnel system is included in the (Appendix B-2).

7.3.2 Department of Streets and Sanitation (DDS)

7.3.2.0 Duct space has been installed in selected locations within the city as part of traffic or street construction programs.

7.3.3 Unicom/Exelon Thermal Technologies

7.3.3.0 A one and a quarter inch conduit is available for governmental, intergovernmental or public purposes usage in selected areas of the Loop.

7.3.4 Parks

7.3.4.0 A system of ducts exists that distributes power to the parks and boulevards throughout the city. This system was installed during the first half of the twentieth century. The condition and available space of these ducts is unknown.

7.4 Support Structures

7.4.0 The City has structures that may be used to support the conduit required to install fiber optic cable. These facilities range from elevated structures, surface rights of way and tunnels that will provide easy access for attaching new cable. The following sections summarize the City structures.

7.4.1 CTA Surface and Elevated Tracks

7.4.1.0 The CTA facilities are composed of three types of structures, 1) underground tunnels, 2) ground level tracks along the expressways, and 3) above ground track structures or elevated tracks. The CTA facilities radiate out from the Chicago loop in five directions (North, Northwest, West, Southwest and South). A map of all the CTA pathways has been included in (Appendix B-1).

7.4.1.1 The majority of the CTA structures are located above ground, either surface track run along the expressways or elevated tracks. The surface structures can be used to support conduit for fiber optic cable. Conduit for fiber cable may be buried along the path of the tracks.

7.4.1.2 Sections of the CTA structure are located as an elevated structure above ground. These structures run through the loop and radiate out in the North, West, Southwest and South directions. Conduit may be attached to these structures.

7.4.1.3 Some areas may have space where switching equipment or fiber interconnection may be placed. Possible areas exist under the elevated tracks or buildings adjacent to the underground system.

7.4.2 Department of Streets and Sanitation

7.4.2.0 DSS has substantial numbers of poles and conduits that are used to support street lighting and traffic signals. The conduits are usually used to run power to the streetlights. Conduits are installed as part of the traffic signal system. These conduits are local, connecting the traffic signals with the nearby traffic controller. Newer sections of the traffic system may have longer runs of conduit that link the traffic controllers to coordinate the flow of traffic. This only occurs in selected routes within the city.

7.5 Underground Resources

7.5.0 The City has a variety of subsurface tunnels that can provide paths for the installation of conduit for fiber optic cable.

7.5.1 CTA Tunnels

7.5.1.0 Parts of the CTA are located underground through large tunnels. The majority of this system is located in the loop area or in selected areas where there are transitions between elevated track to surface tracks to subsurface track. One advantage of this system is it provides paths under rivers and the expressways. A map of the CTA paths is shown in (Appendix B-1).

7.5.2 Freight Tunnels

7.5.2.0 The Chicago Freight Tunnel system runs seventy feet below the streets in the Chicago loop area. The Freight Tunnels follow the grid created by the streets throughout the loop. Some tunnels provide the six paths that allow access under the rivers running through the loop area. A few of the tunnels extend beyond the loop area in selected areas. A map of the Freight Tunnel System is shown in (Appendix B-2).

7.5.3 Outfall Sewers

7.5.3.0 The Outfall facilities, or storm sewers, are running throughout a large part of the city. The sewers are usually dry except during periods of stormy weather. These tunnels are generally four (4') or more feet in diameter.

7.5.3.1 A summary diagram of the sewer system is included in the (Appendix B-3).

7.6 Co-location Construction Opportunities

7.6.0 The City is adding infrastructure that will require the opening of the street, and adding curbs and gutters that will present the opportunity to install conduit for fiber optic cable. The lineal extent of this work exceeds one hundred fifty (150) miles of streets each year.

8.0 SUMMARY OF INSTALLATION PRACTICES FOR MUNICIPAL RESOURCES

8.0.1 The installation practices for each agency have been included for your review. This section reflects the current state of the art based upon currently available products, business practices, installation practices and safety requirements. This section should not be viewed as totally inflexible. The City organizations solicit suggestions on alternative installation practices and materials that may be used to improve this process of implementing the CivicNet fiber optic system.

8.1 CDOT Freight Tunnels

8.1.0 A sample of the installation practices for the Chicago Freight Tunnels has been included in (Appendix C-2). This section describes the methodology to install cabling within this system of tunnels that covers the loop area. Special attention must be given to the use of this facility as measures must be taken to maintain the watertight nature of the system.

8.2 CTA Tunnels and Structures

8.2.0 The CTA has special requirements that must be followed when cable is installed within the facilities of an operating railroad environment. A sample chapter has been extracted from a recent RFP and included in (Appendix C-1).

8.2.1 The section outlines the procedures for the attachment of the fiber optic system to the CTA facilities. Although specifications for fiber optic cable are present in this section, this is not intended to be the focus of the document as it is included in this CivicNet document. Rather, this section is intended to be representative of the process and should not be considered the all-inclusive rules and regulations as these are far more complex.

8.3 Sewers Outfall Facilities

The City has no current standards in place at this time. The City would welcome suggestions from entities that have installed fiber inside sewers as to the procedures and specifications.

9.0 FUNCTIONAL REQUIREMENTS AND SPECIFICATIONS

9.1 Introduction To Fiber Optic Issues

9.1.0 This section of the RFI is primarily focused on core backbone services.

- 9.1.0.0** As noted, emerging models for communications infrastructure are based on new customer requirements, especially high growth in individual demand for services and the need for increasing volumes of high-performance broadband services.
- 9.1.0.1** Although, in general, basic fiber infrastructure is moving toward wide deployment as a common commodity utility, core backbone services will be required to provide a high degree of reliable, sophisticated services.
- 9.1.0.2** The target model for core backbone services is one that will be optimized to allow for faster development of new and enhanced services, expanded access, open architecture, and some forms of direct customer management.
- 9.1.0.3** To some degree, this new model will be driven by IETF architectural specifications, based on its vision of multiple autonomous peering networks using a common set of protocols, as opposed to ITU architectures based on hierarchies, gateways and connection-oriented circuit-switching.
- 9.1.0.4** The core backbone infrastructure will be based on an all-optical network, comprised of components optimized for metro areas as opposed to those that are retrofitted from designs originally aimed at long-haul services.
- 9.1.0.5** Many core backbone services will be those based on IP over wavelength, with appropriate framing, and will include capabilities for provisioning light path meshes and for managing through direct and immediate computer-based provisioning.
- 9.1.0.6** The core backbone will be based primarily on an architecture that provides for IP management of optical components and for Layer 1 signaling to Layer 3 for management processes.
- 9.1.0.7** This core backbone will be interconnected with traditional services, such as SONET and ATM, as well as existing IP services such as with inter-exchange carriers, but the backbone will also provide for gateways that will include a wide range of additional “retail” communication services based on edge solutions, such as tributary links based on new types of low cost fiber, broadband fixed wireless, cable and related headend systems (with reasonable concentrations such as those with $x < 50$ households), and xDSL
- 9.1.0.8** Edge services will include those for Gigabit Ethernet and 10 Gigabit Ethernet.

9.1.1 Basic Support for Fiber Optic Infrastructure

- 9.1.1.0** CivicNet will be supported by high-quality physical infrastructure to ensure reliability across a wide range of environmental conditions and physical contexts across the entire metro area. Complete details are not provided within this document. However, some of the areas to be address are noted here:
- 9.1.1.1** Foundation infrastructure will consist of various support components, including existing, improved and new conduit, vaults, support structures, power grid access links, etc.
- 9.1.1.2** Physical structures such as vaults and conduits will be developed in accordance with City of Chicago standards.
- 9.1.1.3** Architecture for physical infrastructure will conform to City standards, related to materials used, component thickness, horizontal and vertical depths, environmental tolerances, support structures, conduit materials and galvanization practices, steel conduit linking methods, conduit placements, access methods (e.g., vaults coverings, manholes, etc.), specialized routes, such as across bridges, etc.
- 9.1.1.4** Testing procedures will follow City guidelines.
- 9.1.1.5** Cable markers and other signals such as warning tapes will comply with City standards.
- 9.1.1.6** Backfill materials will comply with City standards.
- 9.1.1.7** The foundation infrastructure will comply with all requirements of all municipal permits obtained for the project.
- 9.1.1.8** Any development will be in compliance with applicable codes and requirements of all appropriate regulatory government agencies.

- 9.1.1.9 The development of CivicNet will adhere to regulations related to all other utilities such as horizontal and vertical separations.
- 9.1.1.10 Operation and maintenance of CivicNet foundation infrastructure will conform to City standards.
- 9.1.1.11 Operation specifications will include guidance for immediate and 24 hour response in critical situations, including escalation steps.

9.1.2 Fiber Optic Infrastructure

9.1.2.0 The fiber optic infrastructure will be constructed using quality fiber optic cable that is suitable for the underground environment. The fiber shall be single mode and capable of supporting current technology solutions such as DWDM (Dense Wave Division Multiplexing). All links shall be tested from both ends with an OTDR (Optical Time Domain Reflectometer) with testing results recorded for review.

9.1.2.1 The following fiber characteristics shall apply to all cable used for the CivicNet project:

9.1.2.1.0 Connections shall provide for optimal performance, minimal loss, with the specification for splices at x equal or less than 0.5 dB insertion loss.

9.1.2.1.1 Single mode 1550 nm low dispersion fiber, e.g. SMF-28 (metro)

9.1.2.1.2 No point discontinuity greater than 0.1 dB at 1310 nm and 1550 nm

9.1.2.1.3 Attenuation at 1310 nm no greater than 1.5 dB/Km

9.1.2.1.4 Attenuation variances relative to wavelength shall not exceed:

1285-1310	less than or equal to 0.035
1330-1310	less than or equal to 0.03
1525-1550	less than or equal to 0.03
1550-1575	less than or equal to 0.03

9.1.2.1.5 Attenuation with bending shall not exceed:

100 turns 50 mm, 60 mm diameter less than or equal 0.05 dB/Km at 1310 nm
 100 turns 50 mm, 60 mm diameter less than or equal 0.1 dB/Km at 1550 nm
 Zero dispersion wavelength at 1310 nm plus or minus 10 nm
 Zero dispersion slope less than or equal to 0.092 ps/(nm²*Km)

9.1.2.1.6 Cutoff wavelength shall be less than or equal to 1260 nm

9.1.2.1.7 Polarization Mode Dispersion (link quadrature average) values (as defined by EIA RS-455-133), for concatenated fiber lengths should be optimized for the highest possible performance, even after cabling. Pre-cabling PMD link value less than or equal to 0.1 with the maximum for individual fiber less than or equal to 0.2.

9.1.2.1.8 Fiber dimensional specifications shall be:

A variety of standard lengths will be required
 Fiber curl shall be greater than or equal to the radius of curvature
 Cladding diameter of 125.0 μm plus or minus 1.0 μm
 Core-clad concentricity of less than or equal to 0.5 μm
 Coating diameter of 245 μm plus or minus 5 μm
 Coating/cladding concentricity less than or equal to 12 μm (fiber coating geometry based upon EIA RS-455-173)

9.1.2.1.9 General values for the fiber shall be:

Core diameter ~8 μm to 8.8 μm
 Numerical aperture measured at a one percent power level at 1310 nm equals 0.12
 Zero dispersion wavelength 1310 nm, 1312 nm
 Zero dispersion slop 0.086 to 0.090 ps/(nm²*Km)

Dynamic fatigue Nd equal or greater than 20 with 2 point bend (testing parameters based upon EIA RS-455-76)

Static fatigue N_d equal or greater than 20 (testing parameters based upon EIA RS-455-97)

Coating strip force 0.6 lbs dry (testing parameters based upon EIA RS-455-178A)

- 9.1.2.1.10** Environmental Specifications with operating temperature ranging from minus 60 degrees C to plus 85 degrees C shall have induced attenuation less than or equal to 0.05 at 1310 nm and 1550 nm including heat aging at 85 degrees C, (based upon EIA RS-455-3A, EIA RS-455-73, EIA RS-455-75 for temperature cycling, temperature, humidity cycling, and fluid immersion).

9.1.3 CivicNet Core Backbone Optical Components

- 9.1.3.0** Optical wavelengths will be deployed as virtual lightpaths to transport specific data streams with specific classes of service, especially IP, but also for transport layers, such as ATM. In part, the core backbone of CivicNet will use DWDM to segment aggregated and individual virtual paths in accordance with specific characteristics such as quality-of-service (QoS) as defined by the IETF DiffServ architecture, traffic classes, security requirements, latency sensitivity and other specifications. The Core backbone of CivicNet will be comprised of protocol independent advanced metro DWDM components, including:

- 9.1.3.0.0** Core systems that support between eighty (80) to one hundred fifty (150) wavelengths where wavelengths can be added incrementally within each single fiber.
- 9.1.3.0.1** These wavelength channels should be able to scale to multiple Tbps and to support ten (10) to thirty (30) Gigabits per second each with capabilities for incremental addition of capacity.
- 9.1.3.0.2** Channels should support a wide range of protocols including native Gigabit Ethernet, 10Gigabit Ethernet. These links should be provisioned with optimal performance at or near wirespeed.
- 9.1.3.0.3** The backbone infrastructure will be developed in part with high- performance passive optical switches, which will include high-precision scanning mirrors and high-performance, highly scalable OXCs that can support mesh lightpath configurations. The OXCs will be protocol and wavelength independent, with a small form factor, with maximum $N*N$ scalability and capability to support multiple terabits with almost no loss and with minimal power.
- 9.1.3.0.4** Capabilities for adding high performance repeaters where required (although CivicNet will be designed to minimize the number of repeaters).
- 9.1.3.0.5** High performance optical amplification components.
- 9.1.3.0.6** High performance chromatic dispersion compensators.
- 9.1.3.0.7** High precision wavelength spacing capabilities.
- 9.1.3.0.8** High precision wavelength controlled lasers.
- 9.1.3.0.9** All individual core components must have reliability that meets or exceeds 99.999%.
- 9.1.3.0.10** Self-healing properties will be required at forty (40) milliseconds restoration or less even without protection rings.
- 9.1.3.0.11** All individual core components must be high performance even on links with multiple wavelengths with multiple Gbps per wavelength.
- 9.1.3.0.12** Network performance will include measurements for related server systems, e.g., DNS servers, and routers, as well as for the network core.
- 9.1.3.0.13** WDM Interconnections must provide the capabilities for interconnections with traditional Optical Cross-connect infrastructure.

9.1.4 Data Infrastructure

- 9.1.4.0** The data infrastructure for CivicNet will be particularly important given that core backbone services will be based on IP over wavelength, that management processes will include Layer 3 control and Layer 1 signaling to Layer 3, and that it will include capabilities for provisioning light path meshes and for managing through direct and immediate computer-based provisioning.

- 9.1.4.1 For parts of the network, core routers will function as primary switching devices and as basic network demarcation nodes.
- 9.1.4.2 Core backbone routers have to be high-performance, highly reliable components expected to deliver the usual suite of Layer 3 services.
- 9.1.4.3 Backbone routers will also have to provide for sophisticated Layer 3 management of Layer 1 services, such as lighpath provisioning, dynamic cut-through methods utilizing dedicated wavelengths under specified conditions, as well as diagnostics, traffic conditioning, and fault recovery services.
- 9.1.4.4 Many basic architectural approaches will be derived from IETF concepts, e.g., autonomous peering meshes and connectionless paths versus connection/circuit-oriented and linked paths, protection via redundancy verses rings, re-routing for optimal performance and fault recovery, IP signaling, performance and management techniques.
- 9.1.4.5 Standard IP management tools must be supported, e.g. SNMP.
- 9.1.4.6 The Layer 3 components will provide for high-performance implementations of IETF standards for customization and classification of services, particularly, DiffServ, with advanced Quality of Service (QoS) functions enabled.
- 9.1.4.7 QoS functionality will be highly granulated, e.g., not merely implemented with basic RED or WRED techniques, but with combinations of techniques for edge microflow management and high-performance highly granulated core macroflow management.
- 9.1.4.8 The Layer 3 management systems will provide for standard mechanisms for access control, such as identification, authentication, authorization, policy services, directory services, resource discovery and allocations, detection of resource request signaling, services fulfillment baseline monitoring, etc. (for context ref: IETF Middleware, RFC 2768).
- 9.1.4.9 Out-of-band signaling, monitoring, traffic conditioning, and packet loss control capabilities will be provided via IP at Layer 3.
- 9.1.4.10 Edge Performance management techniques will include, not exclusively, those based on mechanisms for standard TCP self-adjustment, packet survival, TCP window management and other OS considerations, and TTL settings; other techniques will be based on supplemental support components, including high performance state-data DBs and DNS, especially methods related to routing table deltas and recalibrations. Replication/caching techniques will also be used to optimize specific types of network performance in key locations.

9.1.5 Interface and Interconnect Infrastructure

- 9.1.5.0 The CivicNet core backbone will be interconnected with traditional communication services, including SONET and ATM.
- 9.1.5.1 It will also be interconnected with existing IP services
- 9.1.5.2 The backbone will also provide for gateways that will allow for interconnecting with a wide range of additional communication services, including those that are designed to support edge solutions.
- 9.1.5.3 Tributary links will include those based on new types of low cost fiber, broadband fixed wireless, cable and related headend systems (with reasonable concentrations such as those with $x < 50$ households), DSL, etc.
- 9.1.5.4 These interconnects will be based on commonly available components.
- 9.1.5.5 Edge services will include those for Gigabit Ethernet and 10Gigabit Ethernet. GE based solutions are considered particularly important as edge solutions.

9.1.6 Interconnects to Access Infrastructure

- 9.1.6.0 Link Layer Components will include:
 - 9.1.6.0.0 Link Layer Interconnection via individual wavelength directly to router.
 - 9.1.6.0.1 High performance optical Add/Drop Multiplexers.
 - 9.1.6.0.2 High performance Wave Division Multiplexer couplers.

9.1.7 Management Systems

9.1.7.0 The CivicNet will be supported with a NOC, with a 7 by 24 high-quality communications operations center, that will provide services traditionally associated with a NOC, including monitoring, testing, reporting, maintenance, planning and provisioning for new services, problem detection and response (response times will be specified), etc. The CivicNet will not only provide NOC management, traffic engineering, operations and tools for standard functionality, it will also provide for new techniques required for optical networking.

9.1.7.0.0 The core of CivicNet will be based on standard OSS and IETF techniques.

9.1.7.0.1 General management and interface systems will presume a high degree of Layer 3 control including Layer 3 management of Layer 1 and Layer 2.

9.1.7.0.2 Layer 3 tools will be able to interact with Layers 1 and 2 for provisioning, problem detection and resolution, diagnostics, and performance monitoring.

9.1.7.0.3 Techniques will include standard link state routing protocols, including OSPF, etc.

9.1.7.1 Some parts of the network may require MPLS and its variants as basic management tools.

9.1.7.2 Within the IETF, emerging standards may provide for techniques for configuring and provisioning of lightpaths, for example to set up linked Labeled Switched Paths (LSPs), although at this time it is not yet a mature technology and further information is being gathered that will be available after the formal posting of this document.

9.1.7.3 An emerging technology OBPG may also be a consideration, although it also at this time is not yet a mature technology and further information is being gathered that will be available after the formal posting of this document.

9.1.7.4 Management tools will be deployed for:

9.1.7.4.0 Managing router-WDM interfaces

9.1.7.4.1 Resource discovery: auto-discovery of individual wavelengths

9.1.7.4.2 Dynamic edge-computer-based wavelength provisioning

9.1.7.4.3 Precise control over wavelength allocation and related services

9.1.7.4.4 Performance measurements – instrumentation capable of end-to-end monitoring at high performance, e.g., 10Gbps speeds and above.

9.2 Telecommunications

9.2.1 The whole universe of services is in the midst of a major revolution in technologies. This RFI is directed, in part, to insuring that the City takes part and can take advantage of these emerging technologies. Toward that end, the City has a high degree of interest in IP telephony and IP wireless solutions, including web access protocol devices.

9.2.2 The City currently enjoys the benefits of approximately four hundred (400) features that are supported by the modern PBX. Schools and colleges have additional requirements such as E911 support to the classroom. All features provided by the current circuit switched environment must be provided by a converged network.

9.3 Data Communications

9.3.1 CivicNet initially will rely to some degree on current facilities and equipment that utilizes ATM, Frame Relay, Ethernet and serial connections, etc. An implementation plan will be developed that will allow migration from existing to new technology. In other words, this project does not envision an immediate change of all existing systems, but rather a scheduled migration that takes into consideration a variety of factors, including technology change, technology management requirements, economics, and, above all, minimal impact of City functions. This plan will place a premium on the need to provide on-going high quality services to City Agencies and their employees.

9.3.1.0 It must be able to carry all current and future protocols in a vendor independent, industry standards-based manner.

9.3.1.1 Current protocols include IP and IPX.

- 9.3.1.2 This traffic must be manageable by SNMP and provide Quality Of Service (QOS) and policy-based networking to classify traffic and guarantee throughput.
- 9.3.1.3 The network must provide transport carrier class networking with full redundancy and high availability.
- 9.3.1.4 It must be presented as multiple separate highly secure networks to each entity while giving the ability to easily interconnect those networks as needed while maintaining full security.
- 9.3.1.5 Provisioning and increasing bandwidth on demand is also required.
- 9.3.2 Application Requirement Considerations For Digital Communications – CivicNet should have characteristics tailored to digital communications for the future including:
 - 9.3.2.0 Data traffic optimization is a primary requirement vs. optimization for traditional communications modalities, such as circuit switching.
 - 9.3.2.1 High peak-to-baseline rate ratio traffic will be a primary characteristic of network traffic
 - 9.3.2.2 The network will be optimized for multiple communication modes, not just one to one, but collaborative requirements, including one to many, many to one and many to many
 - 9.3.2.3 The network will be optimized for flows of fractal and extreme fractal traffic
 - 9.3.2.4 The network will provide a potential for selected provisioning of extremely high performance, such as wire-speed memory to memory implementations and Gigabit-per-second speeds to edge devices
 - 9.3.2.5 The network will support differentiated services via IETF DiffServ architecture, such as appropriate support for latency-intolerant traffic
 - 9.3.2.6 The network will provide capabilities supporting a high degree of asymmetry in traffic
 - 9.3.2.7 Projected applications will require support for managing a high degree of edge complexity
 - 9.3.2.8 Projected applications will require management of edge congestion
 - 9.3.2.9 This project will incorporate some forms of distributed OIX networks that will allow for a high degree of opportunity for customer-customization
 - 9.3.2.10 The network will support bandwidth optimization through distributed storage techniques, including large-scale caching, high performance ftp to and from edge caches and large scale replication.
- 9.4 **Digital Video Communications and Systems**
 - 9.4.1 A number of agencies currently utilize video communications and video conferencing based on analog technology. The City is interested in a solution where these communications will be migrated to services based on digital video over the Internet.
 - 9.4.2 These must be industry standards-based and allow for multipoint video conferencing, video-on-demand and broadband video multicasting.
 - 9.4.3 Implemented video modalities will employ IETF DiffServ-architecture based on QoS and IP multicasting techniques, IP media replication and caching services. CivicNet core video services will be migrated as soon as possible to IP based digital video, and will require requisite management and performance controls IPDV, including those required for individual modalities.
- 9.5 **Process Control and Switching Networks**
 - 9.5.1 The City is currently using networks of various types to provide control of process and signaling stations and similar types of applications. These links are low speed, most commonly based upon copper telephone cable. Traffic signaling is a similar application that uses fiber optic links (largely multimode) in selected areas to co-ordinate the overall flow of traffic. The majority of traffic systems are standalone.
 - 9.5.2 **These must be industry standards-based and allow for monitoring as well as control of multiple vendor devices.**

10.0 PROPOSAL PROCEDURES AND CONDITIONS

10.1 Pre-Proposal Site Inspections

10.1.0 The City, Parks, and Schools include one thousand six hundred (1,600) facilities, many of which are quite small in terms of service requirements. On the other hand, some of the larger facilities may be deemed worthy of site inspections. If you feel site visits would be useful in preparing your response to the RFI, please send a request to the city website referenced in Section 10.2. Based upon the volume of requests, the City may schedule a tour of selected City locations. No questions will be accepted by the City's representative during the site visit(s). **The City assumes that site visits will be much more relevant during the RFP process that will follow this RFL.**

10.2 Verbal Instructions – Questions and Responses

10.2.0 The City will recognize only Email communications that are authored by potential RFI respondents. The City reserves the right, at its sole discretion, to select the questions it answers and may not provide responses to all of the questions. If the City elects to respond to a question on the RFI, the City will post the answer on the web site. Establishing a “company of record” requires the completion of the registration process on the City’s web site at www.chicagocivicnet.net. Questions from RFI respondents must be sent to the Email address indicated below:

civicnetrfi@cityofchicago.org

10.3 Submission Requirements

10.3.0 Respondents are asked to submit one (1) original and ten (10) copies in paper form.

10.3.1 Respondents are asked to submit one (1) copy on disc, in either Word or Word Perfect.

11.0 TRANSITION PLAN

11.1 Legacy to New Network Structure

11.1.0 The transition from the legacy networks to the CivicNet network is critical, as the City must continue to function internally and to provide services to the community. In particular the transition of existing services, introduction of new services and related timing issues are all crucially important. Minimizing the impact on the City staff is a high priority. The City must be able to direct and require a particular order of implementation to address particular issues it may have. Issues such as number portability, telephone features, migration of data links for computer systems and LAN applications, and migration of video systems are key. When completing your response, please outline how you believe the City can migrate from the current infrastructure to a converged network for the future.

11.1.1 Transition issues include the handling of both the business case side of the equation and the technical side. Section 11.3 outlines **one approach** that touches on these issues.

11.2 Sample Outline

11.2.0 The following is one example. The City urges respondents to be creative. **Alternate approaches are encouraged and expected.**

11.2.1 The City does not want to be in the business of marketing, building, operating, or maintaining a communications company. These functions are for experts who are in that business, some of whom we hope will partner with the City. The City does wish to benefit from being in an equity position, with a communications/network/services provider(s) on contract with us to make CivicNet a reality. The partner vendor(s) would (in this model) do the following:

11.2.3 Assume the level of the City agencies' current services, utilizing the in-place customer premises equipment, in as cost-efficient manner as possible. This could include the use of "hybrid" solutions for the short and mid term, as dictated by economies of scale, payback advantages, and time frames.

11.2.4 For example, the current size of the agencies' networks may well be too large to be addressed in a one-year implementation. Obviously, any solution will be installed in phases and may require multiple years. This project assumes that the City will work closely with the provider in making decisions for scheduling and other planning issues. The City wishes to contract with a provider(s) that can assume responsibility for the entire network and manage the transition from current legacy services and equipment to the high performance network the City is seeking.

11.2.5 As the current services are being managed, the vendor(s) would begin to build the new fiber-based infrastructure, utilizing CivicNet resources as much as possible.

11.2.6 The partner vendor(s) would market the infrastructure to the institutional and private sectors.

11.2.7 As the CivicNet infrastructure comes into place, the vendor(s) would begin to migrate City services to the new network, as cost considerations dictate.

11.2.8 The partner vendor(s) would manage, operate, and maintain CivicNet, in conjunction with companies that are utilizing CivicNet infrastructure for their own operations or to provide services to the public, institutional, or private sectors.

11.2.9 To the extent that partner vendor(s) help to finance the construction of CivicNet, the revenues from the private sector to that extent would belong to the vendor(s) until their financing debt is retired, after which time a small percentage would flow to the City.

11.3 Proposed Network Transition

11.3.0 In this Request for Information, the City is asking respondents to provide a conceptual description of the approaches they might take in proposing a partnership arrangement with the City.

11.3.1 This RFI will be followed in turn by a Request for Proposals in which vendors will be provided with additional information and be asked for much more specific responses. In the RFP, those vendors interested in the network and services aspects of CivicNet, possibly according to the model outlined in Section 11.1, will be asked to provide

details on items such as those in Section 11.4. **The following language in Section 11.4 is just a sample to provide respondents a flavor of how the RFP will be structured. The City does not expect any response to Section 11.4 via this RFL.**

11.4 Proposed CivicNet Architecture

11.4.0 Respondents (to the RFP) will be asked to provide two detailed descriptions of the CivicNet Network, as it relates to the City's existing services. The first description is to explain, and show, how the vendor(s) shall handle the initial assumption of responsibility for providing services to the City, and the second is to explain, and show, how the vendor will approach the design and build of the optical infrastructure.

11.4.1 Initial Proposed Network

11.4.1.0 Vendors must develop an initial benchmark network design that they feel will meet the City agencies' requirements for services. Vendors are reminded that all existing equipment at all locations must be initially supported. This includes voice, data, fax, TTY, video, and any other CPE in place. Because of the size of the City agency networks, a phased cutover is expected, but it must be tightly organized and executed, such that all logistics and billing can be clearly understood by all parties.

11.4.1.1 The initial network design must be shown in a series of charts, lists, and diagrams. Diagram (XXX) shall show the switching facilities or equivalent in block diagram form, including such components as host switches or equivalent, nodes, transmission media, and the interfaces between the network and the PSN.

11.4.1.2 List (XXX) shall show the number of trunks, lines, stations, etc. supported by each switch/host/node or equivalent and the capacity of the equipment at each location. It shall also list the City agency locations to be served by each switch/host/node or equivalent location. Every City location listed in the Appendix must be included.

11.4.2 Redesigned Proposed CivicNet Network

11.4.2.0 Vendors must develop a benchmark optical infrastructure network design that they feel will meet CivicNet requirements. All existing City customer premises equipment in use at all City locations must be either supported, or must be migrated to the redesigned network in a fashion that is consistent with current network spending by the City agencies.

11.4.2.1 The CivicNet architecture must be described in a series of charts, list, and diagrams. Diagram (YYY) shall show the network facilities in block diagram form, including such components as host equipment, nodes, transmission media, and the interface between CivicNet and the PSN.

11.4.2.3 List (YYY) shall show the number of trunks, lines, stations, or equivalent supported by each host/node location, and the capacity of the equipment at each location. It shall also list the City agency locations to be served by each host/node/equivalent location. Every City location listed in the Appendix must be included.

11.4.2.7 Figure (YYY) shall show the backbone fiber infrastructure. Each segment of the backbone must be labeled to show the minimum inside diameter that will be provided for City agency and public sector use, and the minimum inside diameter that will be provided for private sector use. The public sector fiber shall be sheathed separately from the private sector fiber.

11.5 Transition Plan Response for the Purposes of this Request for Information

11.5.0 Companies that might consider seeking to play a major role in CivicNet - as infrastructure or network or service providers - are asked to respond to this section and to the next section (11.6) with a narrative describing the type of Transition Plan you would envision fleshing out in detail in your currently projected response to the RFP that will follow. The City also would like responses to address, in general terms, the financial side of Transition. New technologies are designed to lower costs by routing multiple varieties of traffic over a common connection. What opportunities for cost efficiencies will this allow?

11.6 Prototype System

11.6.0 Building a prototype system to demonstrate the functionality and operability of the new converged network is important. The City must be confident that a converged network can meet the existing functions and features of the current systems and demonstrate the same or better reliability. In your response, outline the type of prototype system that will show that a converged network can meet the existing and future requirements for the City.

12.0 PROPOSAL FORMAT FOR INFRASTRUCTURE/NETWORK/SERVICE/EQUIPMENT PROVIDERS

- 12.0.1** Responses are welcome from utilities, existing communications providers, system integrators, limited or functional partnerships, and consortiums (www.canarie.ca like approaches). Varying levels of participation are encouraged.
- 12.0.2** Please submit your suggestions or areas of interest on all or part of the functional sections by submitting technologies, business plans, asset sharing, professional services, or other creative approaches to building, operating and service provisioning of the CivicNet network.
- 12.0.3** Even though one of the drivers for the CivicNet is E-government applications, the response to this RFI should not address any E-government approaches.

12.1 Qualifications

- 12.1.1** Describe the background of your organization showing products, technologies, professional strengths and abilities that make you qualified to participate in the CivicNet network.

12.2 Background and Experience

- 12.2.0** Please describe the background and experience that your organization can contribute to the CivicNet Network. Outline how you or your company can contribute to the building of the CivicNet network infrastructure. This can include building fiber optic systems, providing technology solutions, network management approaches and systems, and other approaches that may be of benefit to this type of network and infrastructure.
- 12.2.1** Regarding previous projects, please summarize your experience in the design, construction, operation, maintenance, and marketing of large-scale telecommunications systems, particularly fiber-based systems similar in type, size, and complexity to what will be required for this project. Please comment on:
 - 12.2.1.0** Network design
 - 12.2.1.2** Network construction
 - 12.2.1.3** Network operation
 - 12.2.1.4** Network maintenance
 - 12.2.1.5** Utility management
 - 12.2.1.6** Staffing
 - 12.2.1.7** Support services
 - 12.2.1.8** Safety and security
- 12.2.2** Please describe Design/Build projects completed by your firm.
- 12.2.3** Please comment on your capability and experience in marketing telecommunications services, including a description of the types of systems/networks marketed.

12.3 Proposed Fiber Optic System

- 12.3.0** Describe how your organization would install a fiber optic infrastructure using the resources provided by the City of Chicago for the CivicNet network.

12.4 Proposed Telecommunications System

- 12.4.0** Once a citywide fiber optic infrastructure exists, describe the methodology you propose to provide telecommunications services for the City of Chicago agencies. Issues to be addressed include number portability, support for the typical features provided by the modern PBX, E911 support to the classroom, and billing approaches as examples.
- 12.4.1** Discuss the migration plan to move from the current circuit-based network to a converged network.

12.5 Proposed Data Communications System

- 12.5.0** Once a citywide fiber optic infrastructure exists, describe the methodology you propose to provide data communications services for the City of Chicago agencies. Issues to be addressed include migration from a routed and ATM network, support for legacy mainframe links, access to the Internet, and control at the agency level as examples.
- 12.5.1** Discuss the migration plan to move from the current router and ATM based networks to a converged IP based network.

12.6 Proposed Video Communications System

- 12.6.0** Once a citywide fiber optic infrastructure exists, describe the methodology you propose to provide digital video services for the City of Chicago agencies. Issues to be addressed include migration from an ATM and circuit oriented network, support for PC to PC conferencing, access to the internet for digital video based services, and control at the agency level as examples.
- 12.6.1** Discuss enhanced digital video based features that will become possible using an enhanced fiber optic based network.
- 12.6.2** Discuss the migration plan to move from the current circuit and ATM based networks to digital video services on a converged IP based network.

12.7 Proposed Process Control and Switching Systems

- 12.7.0** Discuss how the fiber optic system can be used to improve the control of traffic and process functions throughout the city.

12.8 Proposed Operations and Control Approach

- 12.8.0** Describe your approach to managing the physical fiber optic infrastructure to provide toll quality reliability.
- 12.8.1** Discuss management of the fiber infrastructure, bandwidth management, preventive maintenance requirements and approach to an outage situation.
- 12.8.2** Describe your approach to managing the operational systems as they transition from the legacy structures to a converged network.

12.9 Proposed Financial Model

- 12.9.0** Outline your financial model that describes the costs associated with the construction, operation and management of the fiber optic system.
- 12.9.1** Outline an implementation plan that shows a summary of the anticipated milestones to build this fiber optic system.
- 12.9.2** Outline your financial model that describes the costs associated with the construction, operation and management of a converged network that will support the functions and services required by the City. Assume that the fiber optic system exists.
- 12.9.3** Outline an implementation plan that shows a summary of the anticipated milestones to build the converged system along with a possible transition plan.

12.10 Proposed Public/Private Organizational Model

12.10.0 Outline an organizational model that describes your approach to the Public/Private partnership. Show how this network and infrastructure can be promoted and marketed in such a manner to gain the widest participation by public organizations, private businesses and carriers throughout the city, including those that will provide connectivity to the citizens of the City.

13.0 PROPOSAL FORMAT FOR POTENTIAL PARTNERS IN CIVICNET (NOT SERVICE PROVIDERS)

13.0.1 In Section 3, Business Case, the City emphasized its interest in partnering with the institutional and private sectors. Section 3.2.2.5 and Section 3.3.1.5 listed entities such as utilities, private companies, corporations, banks, healthcare organizations, universities, etc. that might choose to partner with the City.

13.0.2 In Section 3.3.2.0, Varying Levels of Participation are Encouraged, we listed examples of the types of responses we anticipate receiving. Please respond to whichever of the following items apply to your entity.

13.1 If you're interested in providing access to the City, for the build-out of CivicNet, possibly in exchange for fiber or other considerations, please indicate that interest here, along with suggested approaches, etc. Please indicate the geographic extent of your resources that you'd consider as possibly being relevant to this project.

13.2 If you're interested in purchasing "condominium" fiber to run to selected locations, for your own use, for example to connect your locations together, please indicate that here, along with any information you can provide on location addresses, amount of fiber, time frame of interest, etc.

13.3 If you're interested in providing capital to help finance the project in exchange for long-term use of fiber to selected areas, please comment here on the extent of your interest.

13.4 If you're interested in providing capital in exchange for long-term use of the fiber throughout the CivicNet area, such as Irrevocable Rights to Use, please comment here on the extent of your interest.

13.5 If you're interested in providing venture capital, please comment here on the possible extent of your interest.

13.6 If you're interested in leasing fiber and/or services carried over fiber, please comment here along with any details you can offer.

13.7 If you're interested in being a service provider, systems integrator, or being involved in the construction of CivicNet itself, please respond to Section 12.

APPENDICES

Appendix A: Address of Public Entities

- A-1 City of Chicago
- A-2 Chicago Public Schools
- A-3 Chicago Public Libraries
- A-4 City Colleges of Chicago
- A-5 Chicago Housing Authority
- A-6 Chicago Transit Authority Sites
- A-7 Chicago Park District
- A-8 Model Non-Governmental Sites
- A-9 Delegate Agency Sites

Appendix B: Maps of Available Infrastructure

- B-1 CTA Paths
- B-2 Freight Tunnels
- B-3 Outfall Sewers

Appendix C: Summary of Installation Practices

- C-1 CTA Tunnels and Structures
- C-2 CDOT Freight Tunnels
- C-3 CDOT Duct Space

Appendix D: Current Voice/Data/Video Features

Appendix E: The Digital Network Infrastructure and Metropolitan Chicago

Appendix F: Chicago Technology Action Plan – Mayor’s Council of Technology Advisors

Appendix G: Information Technology Infrastructure Sub-Committee Report

Appendix A-1

City of Chicago Sites

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Transportation	3300	E	100th St		1
City	S&S	900	E	103rd St	Pullman	5
City	Water	351	W	104th St.	Roseland	9
City	Transportation	3226	E	106th St		7
City	Health	1971	W	111th St	Morgan Park	8
City	Health	28	E	112th Pl.	Roseland	7
City	Health	200	E	115th St.	Roseland	83
City	9th Dist./S&S	1700	W	119th St		118
City	Human Services	829	W	119th St.	West Pullman	40
City	S&S	1225	W	120th St		2
City	Altgeld Gardens	941	E	132nd Pl		1
City	City Building Facility	951	E	132nd Pl		10
City	Dorothy Gautreaux	967	E	132nd Pl		4
City	Human Services	975	E	132nd St.	Riverdale	12
City	Transportation	301	W	18th St		4
City	Chinatown Outpost	250	W	22nd Pl		3
City	Health Dept.	27	E	26th St		1
City	Health	3059	W	26th St.	South Lawndale	41
City	Health Dept.	530	E	31st St		12
City	Health	530	E	31st St	Douglas	14
City	S.W. Fuel Processing	3757	W	34th St		3
City	Streets & Sanitation	3743	W	34th St.	South Lawndale	1
City	Fleet-Fuel	1501	W	39th St		7
City	Grand Blvd.	37	W	47th St		1
City	Health Dept.	4839	W	47th St		5
City	Fleet Management/Streets & San	2300	W	52nd St.	Gage Park	33
City	S&S	3720	W	55th St.		7
City	Streets & Sanitation	3357	W	55th St.	Gage Park	14
City	Health	4150	W	55th St.	West Elsdon	15
City	Streets & Sanitation	4625	W	55th St.	Garfield Ridge	2
City	City Building Facility	1354	W	61st St		10
City	Health Dept.	641	W	63rd St.		171
City	Health Dept.	3919	W	63rd St		3
City	City Building Facility	4232	W	65th St		16
City	Transportation/S&S	611	W	69th St.	Englewood	13
City	City Building Facility	3540	W	71st St		16
City	Streets & Sanitation	4600	W	72nd St.	West Lawn	3
City	S&S	1619	E	73rd St	South Shore	113
City	S&S	1313	W	74th St		9
City	Streets & Sanitation	1317	W	74th St.	West Englewood	1
City	S&S	1756	W	74th St.	West Englewood	16
City	Health	1221	W	76th St.	Auburn Gresham	14
City	S.E. MHC	1455	W	79th St		1
City	Francis J. Atlas Center	1767	E	79th St		40
City	Health	110	E	79th St.	Chatham	15
City	Auto Pound	650	W	83rd St		4
City	City Building Facility	1440	W	84th St		28
City	Health	2938	E	89th St.	South Chicago	65

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Transportation	3331	E	92nd St		1
City	Human Services	3029	E	92nd St.	South Chicago	14
City	Division of Bridges	3258	E	95th St		1
City	Revenue & Admin. Hearing	2010	E	95th St.		50
City	Transportation	3256	E	95th St.		3
City	Sewers	1040	W	95th St.	Washington Heights	22
City	Revenue Admin. & Hearing	2006	E	95th St.	South Deering	3
City	Lane Plaza	2250	W	Addison St		1
City	Revenue PC	2550	W	Addison St	North Center	43
City	S&S/Transportation	8801	S	Anthony	Calumet Heights	25
City	S&S Towing	2292	S	Archer		9
City	Streets & Sanitation	2296	S	Archer Ave.	Armour Square	6
City	Transportation	5919	S	Archer Ave.	Garfield Ridge	12
City	Human Services	3636	W	Armitage Ave.	Avondale	31
City	Human Services	4345	W	Armitage Ave.	Hermosa	2
City	Human Services	4359	W	Armitage Ave.	Hermosa	15
City	City Building Facility	3333	W	Arthington		13
City	Water Dept.	2322	S	Ashland		8
City	Water Dept.	2350	S	Ashland		1
City	Water Dept.	2352	S	Ashland		30
City	Water Dept.	2362	S	Ashland		1
City	Water Dept.	2400	S	Ashland		1
City	S&S	2401	S	Ashland		19
City	Water Dept.	2450	S	Ashland		1
City	Water Dept.	2470	S	Ashland		9
City	DREV	2735	N	Ashland		50
City	Auto Pound 3	4000	S	Ashland		3
City	Health Dept.	4309	S	Ashland		4
City	Sewers (311)	3901	S	Ashland	New City	94
City	DREV	4008	S	Ashland	New City	10
City	Transportation	1533	S	Ashland	Near West Side	5
City	Health	1713	S	Ashland	Lower West Side	55
City	Water	2334	S	Ashland	Lower West Side	43
City	Bureau of Electric	2451	S	Ashland	Lower West Side	243
City	Health	4313	S	Ashland	New City	4
City	Central Warehouse - Pharmacy	1824	N	Besley Ct		1
City	Area 3 & 19th District	2450	W	Belmont Ave.		4
City	Holman Community Clinic	4210	S	Berkeley		8
City	Health	1820	N	Besly	Avondale	25
City	Parking Facility	1217	N	Bosworth		1
City	City Building Facility	1701		Bosworth		11
City	Revenue Parking	4544	N	Broadway		
City	S&S	5853	N	Broadway	Edgewater	7
City	City Building Facility	1401	N	California		10
City	City Building Facility	2650	S	California		15
City	City Building Facility	3845	N	California		18
City	Cook Co. Sheriff's Office	3900	S	California		8
City	2nd Ward	2840	S	Calumet	Douglas	6

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Health/Fire	1201	S	Campbell	Near West Side	32
City	Fleet Management	3245	N	Campbell Ave.	North Center	7
City	Transportation	2021	S	Canal		1
City	S&S	2300	S	Canal	Armour Square	2
City	23rd Ward	5554	S	Central		1
City	Aviation Warehouse	5837	S	Central		1
City	S&S	6411	S	Central		6
City	City Building Facility	300	N	Central Park		11
City	Water Dept.	1015	S	Central Park		7
City	Health Dept.	1643	W	Cermak Rd.		6
City	Human Services	1904	W	Cermak Rd.	Lower West Side	41
City	Water	3300	E	Cheltenham Pl.	South Shore	112
City	City Building Facility	1615	W	Chicago Ave.		88
City	37th Ward	4830	W	Chicago Ave.		1
City	Austin	5634	W	Chicago Ave.		6
City	Human Services	1623	W	Chicago Ave.	West Town	500
City	S&S	4830	W	Chicago Ave.	Austin	7
City	City Building Facility	3834	N	Cicero Ave.		10
City	City Building Facility	5700	S	Cicero Ave.		17
City	S&S	6700	S	Cicero Ave.		1
City	Transportation	307	N	Clark St.		1
City	Central Office Bldg. Vantage	320	N	Clark St.		187
City	R-9 Garage	1752	S	Clark St.		1
City	Health Dept.	2849	N	Clark St.		23
City	Health Dept.	2861	N	Clark St.		12
City	City Building Facility	4100	N	Clark St.		11
City	Planning	20	N	Clark St.	Loop	176
City	Health	2847	N	Clark St.	Lake View	10
City	City Building Facility	1435	S	Clinton		12
City	City Building Facility	1200	N	Clybourn		14
City	Petrillo Band Shell	235	S	Columbus Dr.		3
City	Special Events	251	N	Columbus Dr.	Loop	23
City	South Chicago Family Services	8516	S	Commercial		23
City	Transportation	361	W	Congress		2
City	City Building Facility	23	E	Congress		80
City	S.E. Case Management Luther	8704	S	Constance		2
City	Transportation	1440	W	Cortland		1
City	S&S	2460	W	Cortland	Avondale	7
City	Health Dept.	4310	S	Cottage Grove		1
City	Health Dept.	4312	S	Cottage Grove		1
City	Health Dept.	4413	S	Cottage Grove		1
City	Health Dept.	4415	S	Cottage Grove		7
City	S&S	5520	S	Cottage Grove		1
City	City Building Facility	5818	S	Cottage Grove		38
City	Human Services/Health	4314	S	Cottage Grove	Kenwood	213
City	General Services/Health	9059	S	Cottage Grove	Chatham	69
City	S&S	1944	W	Cullerton	Lower West Side	7

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Health Dept.	1520	N	Damen		2
City	City Building Facility	4700	S	Damen		12
City	S&S	5941	S	Damen		3
City	Academy Training	550	W	Dekoven		2
City	Fire	558	W	Dekoven	Near West Side	86
City	Edgebrook	5426	W	Devon		6
City	City Building Facility	3001	W	Division St.		19
City	Health	2418	W	Division St.	West Town	79
City	Health	4909	W	Division St.	Austin	14
City	City Building Facility	10300	S	Doty		11
City	S&S, DREV	10301	S	Doty	South Deering	11
City	Housing	3600	W	Douglas		1
City	Housing	3608	W	Douglas		1
City	Water Dept.	2250	W	Eastwood Ave.		5
City	Parking	121	N	Elizabeth		3
City	Revenue Parking	2630	N	Emmett		2
City	Streets & Sanitation	2327	W	Erie St.	West Town	8
City	20th Ward Yard	6401	S	Evans	Woodlawn	11
City	S&S	9211	S	Ewing	South Chicago	17
City	Revenue Parking	9140	S	Exchange Ave		1
City	Streets & Sanitation	940	W	Exchange Ave.	New City	40
City	Fleet Management	4233	W	Ferdinand	Humboldt Park	30
City	28th Ward Yard	4251	W	Ferdinand	Humboldt Park	2
City	Health	920	N	Franklin St.	Near North Side	11
City	Parking	3542	W	Fullerton		1
City	Transportation	535		Grand Ave.		93
City	City Building Facility	2605	W	Grand Ave.		10
City	S&S	2505	W	Grand Ave.	West Town	31
City	Streets & Sanitation	2555	W	Grand Ave.	West Town	2
City	City Building Facility	30	S	Greenleaf Ave		25
City	Health	4230	S	Greenwood	Oakland	43
City	46th Ward	3608	N	Halsted St.		2
City	23rd District	3640	N	Halsted St.		2
City	City Building Facility	6201	S	Halsted St.		17
City	Mid-South	10833	S	Halsted St.		20
City	Health Dept.	11250	S	Halsted St.		4
City	Human Resources Dev. Institute	11623	S	Halsted St.		2
City	Streets & Sanitation	2850	S	Halsted St.	Bridgeport	7
City	Human Services	6245	S	Halsted St.	Englewood	31
City	Water Dept.	735	W	Harrison St.		5
City	S&S	5337	W	Harrison St.		4
City	Water	725	W	Harrison St.	Near West Side	
City	Salt/Snow	1223	N	Hickory		1
City	S&S	6453	W	Higgins Ave.	Norwood Park	11
City	Human Services	7	N	Homan	East Garfield Park	24
City	Salt Station	4609	W	Homer St.		4
City	Streets & Sanitation	4619	W	Homer St.	Belmont Cragin	14

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Department of Health	1737		Howard St.		6
City	Health	1607	W	Howard St.	Rogers Park	59
City	Widow Clark House	1827	S	Indiana Ave.		4
City	City Building Facility	6800	S	Indiana Ave.		1
City	Pullman	11101	S	Indiana Ave.		1
City	9th & 34th Wards	11615	S	Indiana Ave.	West Pullman	9
City	Cultural Affairs	1821	S	Indiana Ave.	Near South Side	6
City	Fleet	3812	S	Iron	East Garfield Park	7
City	Forestry	9600	W	Irving Park Rd		2
City	Water	8422	S	Kedvale Ave.	Ashburn	3
City	Human Services	10	S	Kedzie	East Garfield Park	424
City	S&S Forestry	3200	S	Kedzie	South Lawndale	93
City	Aging	6117	S	Kedzie	Chicago Lawn	60
City	Revenue PC	800	N	Kedzie	Humboldt Park	56
City	City Building Facility	700	N	Kilbourn		15
City	28th Ward & Snow Command	750	N	Kilbourn		7
City	Revenue Parking	2636	N	Kimball		1
City	Woodlawn	6247	S	Kimbark		4
City	Health Dept.	6657	S	Kimbark		5
City	Streets & Sanitation	1044	N	Kingsbury St.	Near North Side	1
City	Transportation	423	W	Kinzie		2
City	City Building Facility	3727	W	Kinzie		11
City	S&S	1642	N	Kostner		2
City	Health	721	N	La Salle Dr.	Near North Side	6
City	Special Events	1	N	La Salle St.	Loop	39
City	Parking Facility	5230	S	Lake Park		2
City	City Building Facility	402	N	Lake Shore Dr		65
City	City Building Facility	2301	S	Lake Shore Dr		10
City	Transportation	156	N	Lake Shore Dr.	Loop	5
City	Transportation	356	W	Lake St		2
City	Parking	4639	N	Lamon		3
City	Health	907	N	Larabee St.	Near North Side	6
City	City Building Facility	2	N	Lasalle		17
City	City Building Facility	180	N	Lasalle		57
City	City Building Facility	221	N	Lasalle		12
City	Transportation	307	N	Lasalle		1
City	City offices	30	N	Lasalle	Loop	2,645
City	City offices	33	N	Lasalle	Loop	253
City	City Hall	121	N	Lasalle	Loop	5,539
City	22nd Ward/Storage	3400	S	Lawndale Ave.	South Lawndale	15
City	Sewers (311)	3458	S	Lawndale Ave.	South Lawndale	44
City	Mayfair	4200	W	Lawrence Ave.		3
City	Northwest Outpost	5300	W	Lawrence Ave.		4
City	Aging	2019	W	Lawrence Ave.	Lincoln Square	50
City	S&S	4605	W	Lawrence Ave.	Irving Park	19
City	Health/Police Crime Lab	2111	W	Lexington St.	Near West Side	71
City	Water	5555	W	Lexington St.	Austin	8

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Revenue Parking	3830	N	Lincoln Ave.		2
City	City Building Facility	10650	S	Longwood Dr		10
City	Office of Emergency Comm.	1	S	Loomis St.		2
City	Alba Outpost	1254	S	Loomis St.		2
City	Brainerd	8945	S	Loomis St.		5
City	Streets & Sanitation	1548	S	Loomis St.	Near West Side	15
City	Meigs Field	1361	S	Lynn White Dr		2
City	Meigs Field	1521	S	Lynn White Dr		6
City	Meigs Field	1700	S	Lynn White Dr		25
City	City Building Facility	1101	W	Madison		10
City	27th Ward/Police	1202	W	Madison		4
City	OEC Fire	1411	W	Madison	Near West Side	744
City	Auto Pound	6359	N	Mannheim Rd		4
City	S&S/DREV	6545	N	Mannheim Rd	Ohare	10
City	S&S	3559	S	Maplewood	Brighton Park	10
City	S&S	4500	N	Marine Dr		2
City	Davis Square Clinic	4410	S	Marshfield		2
City	Maxwell Street Station	943	W	Maxwell		28
City	Dump	4801	N	Mc Donough		1
City	City Building Facility	8458	S	Mcackinaw		15
City	Medill Transfer Station	1639	W	Medill Ave.		1
City	Streets & Sanitation	1633	W	Medill Ave.	Lincoln Park	10
City	Auto Pound	1635	W	Melrose	(Vacant)	6
City	City Building Facility	25	N	Michigan Ave		19
City	City Building Facility	325	S	Michigan Ave		10
City	Water Dept.	811	N	Michigan Ave		15
City	City Building Facility	1306	S	Michigan Ave		73
City	Housing	318	S	Michigan Ave	Loop	514
City	CPD HQ	3510	S	Michigan Ave	Douglas	264
City	Cultural Affairs	20	N	Michigan Ave.	Loop	35
City	Health	3525	S	Michigan Ave.	Douglas	7
City	Water/Cultural Affairs	806	N	Michigan Ave.	Near North Side	6
City	City Building Facility	4849	N	Milwaukee Ave	Jefferson Park	26
City	Health	2354	N	Milwaukee Ave.	Avondale	39
City	Streets & Sanitation	2579	N	Milwaukee Ave.	Avondale	1
City	Aging	3160	N	Milwaukee Ave.	Avondale	37
City	Human Services	4849	N	Milwaukee Ave.	Jefferson Park	9
City	City Building Facility	350	E	Monroe		15
City	Chicago Christian Industries Strg.	1358	W	Monroe		3
City	Transportation/S&S	1827	N	Monticello Ave.	Avondale	8
City	Streets & Sanitation	3512	W	Montrose Ave	Irving Park	9
City	Pipe Yard B-Warehouse	4307	S	Morgan		20
City	S&S	2817	N	Natoma	Montclare	13
City	S&S	4243	N	Neenah		8
City	Physical Fitness & Gym	3540	S	Normal		42
City	S&S	1150	N	North Branch	Near North Side	22
City	Near North	419	W	Oak		5

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Streets & Sanitation	4200	N	Oak Park Ave.	Dunning	4
City	Transportation	4257	N	Oak Park Ave.	Dunning	2
City	Streets & Sanitation	7800	S	Oakley Ave.	Ashburn	14
City	City Building Facility	1000	E	Oakwood		16
City	Aging	2120	W	Ogden Ave		1
City	City Building Facility	2240	W	Ogden Ave	Near West Side	168
City	CDOT, CS	2350	W	Ogden Ave	Near West Side	104
City	Aging/Health	2102	W	Ogden Ave.	Near West Side	124
City	Health	2160	W	Ogden Ave.	Near West Side	276
City	Human Services	3140	W	Ogden Ave.	North Lawndale	6
City	Water	6801	S	Oglesby Ave.	South Shore	6
City	Aviation-O'Hare Terminal 2			O'hare Airport		22
City	Water	1000	E	Ohio St.	Near North Side	669
City	Health Dept.	1321	S	Paulina		7
City	SW Transfer Station	1400	W	Pershing Rd		44
City	Trailer	1458	W	Pershing Rd		2
City	Office & Garage	1525	W	Pershing Rd		1
City	Sewers	1547	W	Pershing Rd		1
City	Department of Water	1819	W	Pershing Rd		116
City	Water (311)	1849	W	Pershing Rd	New City	6
City	Streets & Sanitation/Trans.	1501	W	Pershing Rd.	East Garfield Park	127
City	Consumer Services	2420	W	Pershing Rd.	Brighton Park	3
City	City Building Facility	500	N	Peshtigo		85
City	Special Events Office	1707	S	Prairie		5
City	North Park Village	5801	N	Pulaski Rd		46
City	S&S	1817	S	Pulaski Rd.	North Lawndale	8
City	CDOT (311)/Health	5801	N	Pulaski Rd.	North Park	326
City	Auto Pound 7	6100	S	Racine		2
City	City Building Facility	55	W	Randolph		12
City	City Building Facility	66	E	Randolph		30
City	City Building Facility	100	W	Randolph		10
City	City Building Facility	174	W	Randolph		11
City	City Building Facility	300	E	Randolph		16
City	City Building Facility	337	E	Randolph		12
City	City Building Facility	1501	W	Randolph		12
City	Fleet Management/S&S	6441	N	Ravenswood	Rogers Park	34
City	Streets & Sanitation	3001	S	Rockwell St.	South Lawndale	2
City	S&S	3143	N	Rockwell St.	Avondale	17
City	Transportation	3147	N	Rockwell St.	Avondale	2
City	S&S	4141	N	Rockwell St.	North Center	24
City	Health Dept.	2310	W	Roosevelt Rd		3
City	City Building Facility	5201	W	Roosevelt Rd		1
City	City Building Facility	4325	W	Roosevelt Rd.	North Lawndale	2
City	City Building Facility	1400	N	Sacramento Ave.		19
City	City Shops	3142	S	Sacramento Ave.	South Lawndale	7
City	City Shops	3150	S	Sacramento Ave.	South Lawndale	33
City	City Shops	3160	S	Sacramento Ave.	South Lawndale	4

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	Fleet	3100	S	Sacramento Ave.	South Lawndale	80
City	Transportation	3124	S	Sacramento Ave.	South Lawndale	69
City	Water	3148	S	Sacramento Ave.	South Lawndale	60
City	S&S, DREV	701	N	Sacramento Ave.	Humboldt Park	24
City	S&S	1501	W	School	Lake View	6
City	Administrative Hearings	740	N	Sedgwick		151
City	North Area Outpost	4740	N	Sheridan		1
City	46th Ward Yard	4750	N	Sheridan		12
City	Human Services	4740	N	Sheridan	Uptown	60
City	Streets & Sanitation	1713	N	Springfield Ave.	Humboldt Park	3
City	Water	1747	N	Springfield Ave.	Humboldt Park	14
City	City Building Facility	110	N	State St		16
City	Transportation	309	N	State St		3
City	Revenue Parking 3	553	S	State St		2
City	Police Headquarters	1121	S	State St		6
City	Equipment & Supplies	1137	S	State St		5
City	Parking Lot	1141	S	State St		1
City	Evidence Tech	1179	S	State St		5
City	City Building Facility	4844	S	State St		14
City	DePaul Center	333	S	State St	Loop	2,024
City	Health	4410	S	State St.	Grand Boulevard	81
City	Health	5044	S	State St.	Grand Boulevard	12
City	Fleet /Streets &	10101	S	Stony Island	South Deering	75
City	Human Services	6921	S	Stony Island	South Shore	15
City	North Dist. Storage Yards	4826	W	Sunnyside Ave.		1
City	North Dist. Storage Yards	4850	W	Sunnyside Ave.		2
City	North Dist. Storage Yards	4950	W	Sunnyside Ave.		5
City	Water	4820	W	Sunnyside Ave.	Portage Park	13
City	Fleet Management	4833	W	Sunnyside Ave.	Portage Park	3
City	North Dist. Storage Yards	4900	W	Sunnyside Ave.	Portage Park	27
City	City Building Facility	1411	W	Superior		86
City	Admin Hearings	400	W	Superior	Near North Side	205
City	Warehouse	5620	W	Taylor		3
City	Fleet Distribution Center	1680		Throop St.		303
City	S&S	6145	S	Throop St.	West Englewood	3
City	Health Dept.	1224	W	Van Buren		100
City	Fleet Management	10420	S	Vincennes Ave.	Washington Heights	4
City	S&S	8559	S	Vincennes Ave.	Auburn Gresham	8
City	Water	3826	W	Wabansia Ave.	Humboldt Park	29
City	Central MHC	185	N	Wabash		3
City	Transportation	326	N	Wabash		2
City	IBM Plaza - 5th Floor	330	N	Wabash		13
City	S&S	233	S	Wacker	Loop	1
City	S&S	50	E	Wacker	Loop	23
City	City Building Facility	55	W	Washington		28
City	Cultural Center	78	W	Washington		9
City	City Building Facility	111	W	Washington		10

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
City	S&S	1250	W	Washington		1
City	City Building Facility	1850	W	Washington		11
City	S&S (311)	1248	W	Washington	Near West Side	84
City	Health	2045	W	Washington	Near West Side	4
City	Daley Center	50	W	Washington	Loop	985
City	Cultural Center	78	E	Washington	Loop	397
City	City Building Facility	1358	W	Webster	Lincoln Park	7
City	City Building Facility	2355	S	Western Ave		10
City	Health Dept.	2415	S	Western Ave		7
City	Animal Care Center	2741	S	Western Ave		53
City	CDOT	5220	S	Western Ave	Gage Park	40
City	40th Ward/Fleet Management	5333	N	Western Ave	Lincoln Square	29
City	Transportation	4959	S	Western Ave.	Gage Park	3
City	Fleet Management/Water Dept.	7521	S	Western Ave.	Ashburn	63
City	Water	745	W	Wilson Ave.	Uptown	1
City	Water	4850	W	Wilson Ave.	Portage Park	12
City	Health	845	W	Wilson Ave.	Uptown	118
City	City Building Facility	3901	S	Wolcott		11
City	13th District	937	N	Wood St		4
City	Health	6325	S	Woodlawn	Woodlawn	2
City	Health	6337	S	Woodlawn	Woodlawn	48
Fire	Engine 093	330	W	104th St	Roseland	3
Fire	Engine 092	3112	W	111st St		2
Fire	Engine 062	34	E	114th St	Roseland	1
Fire	Bureau of Support Services	3015	W	31st St	South Lawndale	2
Fire	Engine 039	1618	W	33rd Pl	East Garfield Park	3
Fire	Engine 065	3002	W	42nd St	Brighton Park	4
Fire	Building Maintenance	1653	W	43rd St		2
Fire	Engine 034	4034	W	47th St	Archer Heights	3
Fire	Engine 123	2215	W	51st St	Gage Park	3
Fire	Engine 060	1150	E	55th St	Hyde Park	5
Fire	Engine 088	3500	W	60th St	Chicago Lawn	2
Fire	Engine 063	1405	E	62nd Pl	Woodlawn	3
Fire	Midway	5200	W	63rd St	Clearing	6
Fire	Engine 101	2240	W	69th St	Chicago Lawn	2
Fire	Engine 122	101	E	79th St	Chatham	4
Fire	Engine 082	817	E	91st St	Chatham	3
Fire	Engine 046	3027	E	93rd St	South Chicago	2
Fire	Engine 121	1700	W	95th St	Beverly	2
Fire	Engine 022	605	W	Armitage Ave	Lincoln Park	4
Fire	Engine 030	1125	N	Ashland Ave	West Town	1
Fire	Engine 049	4401	S	Ashland Ave	New City	2
Fire	Engine 116	5955	S	Ashland Ave	West Englewood	10
Fire	Engine 129	8120	S	Ashland Ave	Auburn Gresham	3
Fire	Engine 104	11659	S	Avenue O	Hegewisch	3
Fire	Engine 119	6030	N	Avondale Ave	Norwood Park	5
Fire	Engine 056	2214	W	Barry Ave	North Center	2

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
Fire	Engine 007	4911	W	Belmont Ave	Belmont Cragin	3
Fire	Engine 097	13359	S	Burley Ave	Hegewisch	2
Fire	Field Division North	1732	W	Byron St	Lake View	10
Fire	Engine 107	1101	S	California Ave	North Lawndale	17
Fire	Engine 071	6239	N	California Ave	West Ridge	2
Fire	Engine 019	3421	S	Calumet Ave	Douglas	2
Fire	Engine 008	212	W	Cermak Rd	Armour Square	4
Fire	Engine 72	7974	S	Chicago Ave		13
Fire	Engine 014	1129	W	Chicago Ave	West Town	2
Fire	Engine 098	202	E	Chicago Ave	Near North Side	3
Fire	Engine 117	4900	W	Chicago Ave	Austin	16
Fire	Public Education	1010	S	Clinton St	Near West Side	23
Fire	Fire Academy South	1338	S	Clinton St	Near West Side	48
Fire	Engine 013	259	N	Columbus Dr	Loop	2
Fire	Engine 20	1320	W	Concord		2
Fire	Engine 045	4600	S	Cottage Grove	Kenwood	3
Fire	Engine 011	5343	N	Cumberland Ave	Norwood Park	3
Fire	Engine 035	1901	N	Damen Ave	Avondale	3
Fire	Engine 023	1915	S	Damen Ave	Lower West Side	2
Fire	Engine 112	3801	N	Damen Ave	North Center	5
Fire	Prevention	444	N	Dearborn St		25
Fire	Engine 016	4005	S	Dearborn St	Grand Boulevard	3
Fire	Engine 005	324	S	Desplaines	Near West Side	2
Fire	Engine 004	548	W	Division St	Near North Side	2
Fire	Engine 080	12701	S	Doty Ave	Riverdale	2
Fire	FPB North	2100	W	Eastwood Ave	Lincoln Square	7
Fire	Engine 106	3401	N	Elston Ave	Avondale	11
Fire	Engine 073	8630	S	Emerald Ave	Auburn Gresham	2
Fire	Engine 074	10615	S	Ewing Ave	East Side	1
Fire	Engine 110	2322	W	Foster Ave	Lincoln Square	3
Fire	Fire Boat	307	N	Franklin		3
Fire	Fire Boat/Police	400	N	Franklin		1
Fire	Engine 094	5758	W	Grace St	Portage Park	2
Fire	Engine 068	5258	W	Grand Ave	Belmont Cragin	4
Fire	Engine 084	6204	S	Green St	Englewood	2
Fire	Engine 102	1723	W	Greenleaf Ave	Rogers Park	3
Fire	Engine 055	2718	N	Halsted St	Lincoln Park	2
Fire	Engine 038	2111	S	Hamlin Ave	North Lawndale	3
Fire	Engine 086	3918	N	Harlem Ave	Dunning	3
Fire	Engine 100	6843	S	Harper Ave	South Shore	1
Fire	Engine 113	5212	W	Harrison St	Austin	2
Fire	S-Twr.	10400	S	Harvard		1
Fire	Engine 120	11035	S	Homewood Ave	Morgan Park	3
Fire	Engine 081	10458	S	Hoxie Ave	South Deering	12
Fire	Engine 042	55	W	Illinois St	Near North Side	20
Fire	Field Division South	6858	S	Indiana Ave	Greater Grand Crossing	7
Fire	Engine 099	3042	S	Kedvale Ave	South Lawndale	3

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
Fire	Engine 044	412	N	Kedzie Ave	Humboldt Park	7
Fire	Engine 124	4426	N	Kedzie Ave	Albany Park	6
Fire	EMS Support and Logistics	714	S	Kedzie Ave	East Garfield Park	6
Fire	Engine 015	8026	S	Kedzie Ave	Ashburn	4
Fire	Engine 126	7313	S	Kingston Ave	South Shore	3
Fire	Engine 077	1224	S	Komensky Ave	North Lawndale	1
Fire	Engine 103	25	S	Lafin St	Near West Side	1
Fire	Engine 026	10	N	Leavitt St	Near West Side	1
Fire	Engine 079	6424	N	Lehigh Ave	Forest Glen	1
Fire	Air Rescue	1500	S	Linn White Dr	Near South Side	2
Fire	Engine 029	3509	S	Lowe Ave	Bridgeport	2
Fire	Engine 009	5600	N	Mannheim Rd	Ohare	49
Fire	Engine 047	432	E	Marquette Rd	Woodlawn	5
Fire	Building Maintenance	1401	S	Michigan Ave		4
Fire	Engine 108	4625	N	Milwaukee Ave	Portage Park	18
Fire	Engine 032	5559	S	Narragansett	Garfield Ridge	1
Fire	Engine 125	2323	N	Natchez Ave	Belmont Cragin	3
Fire	Breathing Apparatus	1044	N	Orleans St	Near North Side	11
Fire	Engine 054	7101	S	Parnell Ave	Englewood	2
Fire	Engine 115	11940	S	Peoria St	West Pullman	1
Fire	Engine 089	3945	W	Peterson Ave	North Park	3
Fire	Engine 076	1747	N	Pulaski Rd	Humboldt Park	2
Fire	Engine 091	2827	N	Pulaski Rd	Avondale	6
Fire	Engine 064	7659	S	Pulaski Rd	Ashburn	2
Fire	R2	702	N	Rescue2 Rd	Ohare	2
Fire	R3	475	W	Rescue3 Rd	Ohare	2
Fire	Engine 059	5714	N	Ridge Ave	Edgewater	3
Fire	Engine 018	1123	W	Roosevelt Rd	Near West Side	4
Fire	Engine 070	1545	W	Rosemont Ave	Edgewater	6
Fire	Motor Maintenance	3050	S	Sacramento		11
Fire	Fire Boat	3128	S	Sacramento		2
Fire	Engine 072	7982	S	South Chicago	South Chicago	1
Fire	Engine 075	11958	S	State St	West Pullman	5
Fire	Engine 043	2179	N	State St	Avondale	2
Fire	Computer Aided Dispatch	5430	W	Taylor		1
Fire	Engine 028	2534	S	Throop St	Bridgeport	5
Fire	Engine 069	4017	N	Tripp Ave	Irving Park	1
Fire	Engine 050	5000	S	Union Ave	New City	2
Fire	Transmitter Station	10412	S	Vincennes		14
Fire	Truck 024	10400	S	Vincennes	Washington Heights	3
Fire	Engine 061	5349	S	Wabash Ave	Washington Park	3
Fire	Engine 096	439	N	Waller Ave	Austin	1
Fire	Engine 078	1052	W	Waveland Ave	Lake View	2
Fire	Engine 001	419	S	Wells St	Loop	2
Fire	Alarm Pol Tel Stg	5219	S	Wentworth		14
Fire	Englewood Fire Alarm	6351	S	Wentworth		16
Fire	Engine 095	4005	W	West End Ave	West Garfield Park	2

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
Fire	Engine 057	1244	N	Western Ave	West Town	4
Fire	Engine 109	2358	S	Whipple St	South Lawndale	2
Fire	Engine 083	1200	W	Wilson Ave	Uptown	5
Police	4TH	2255	E	103rd St	South Deering	34
Police	5TH	727	E	111th St	Pullman	104
Police	Equipment & Supplies	555	W	14th Pl		8
Police	21ST	300	E	29th St	Douglas	23
Police	8TH	3515	W	63rd St	Chicago Lawn	25
Police	6th Dist.	819	W	85th St		20
Police	Police Facility	801	W	Adams		6
Police	19TH	2452	W	Belmont Av	North Center	113
Police	2nd Dist.	3131	W	Bryn Mawr		7
Police	14TH	2150	N	California Av	Avondale	26
Police	18TH	113	W	Chicago Av	Near North Side	40
Police	15TH	5327	W	Chicago Av	Austin	35
Police	24TH	6464	N	Clark St	Rogers Park	39
Police	3RD	7040	S	Cottage Grove Av	Greater Grand Crossing	36
Police	10TH	2259	S	Damen Av	Lower West Side	25
Police	Central Dist.	2347	W	Erie		1
Police	Police Facility	3340	W	Fillmore St		301
Police	20TH	1940	W	Foster Av	Lincoln Square	24
Police	4th Dist.	4014	W	Fullerton		9
Police	16th Dist.	5430	W	Grale		25
Police	Police Facility	5600	W	Grand		1
Police	Police Facility	5605	W	Grand		22
Police	25TH	5555	W	Grand Av	Belmont Cragin	95
Police	23RD	3600	N	Halsted St	Lake View	41
Police	6TH	7808	S	Halsted St	Auburn Gresham	46
Police	Area 4 Garage	3104	W	Harrison St		13
Police	11TH	3151	W	Harrison St	East Garfield Park	17
Police	Training Academy	1300	W	Jackson Blvd		87
Police	Crime Lab	2100	W	Lexington		1
Police	9TH	3501	S	Lowe Av	Bridgeport	107
Police	27th Ward & Police	1200	W	Madison		6
Police	Headquarters Station	3510	S	Michigan		264
Police	2nd Ward Warehouse	3920	S	Michigan		6
Police	Police Department	5151	N	Milwaukee Ave	Jefferson Park	40
Police	22ND	1830	W	Monterey Av	Morgan Park	24
Police	17TH	4461	N	Pulaski Rd	Albany Park	34
Police	12TH	100	S	Racine Av	Near West Side	34
Police	7TH	6120	S	Racine Av	West Englewood	25
Police	Police Facility	200	E	Randolph		4
Police	Police Department	1718	S	State St.	Near South Side	22
Police	INT	1024	S	Wabash		6
Police	OPS	1130	S	Wabash		16
Police	Area One Garage	5218	S	Wentworth		1
Police	2ND	5101	S	Wentworth Av	Fuller Park	102

**Appendix A-1 City of Chicago Sites
(continued)**

CITY OF CHICAGO SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
Police	13TH	937	N	Wood St	West Town	21
					Total Lines	10625

Appendix A-2

Chicago Public School Sites

CHICAGO PUBLIC SCHOOL SITES

Abbott3630 S Wells St 60609 200 West - 3630 South (773) 535-1660	Acorn Charter3814 W Iowa St 60651 3814 West - 900 North (773) 235-6063
Act Charter4319 W Washington Bl 60624 4319 West - 100 North (773) 626-4200	Addams10810 S Avenue H 60617 3732 East - 10810 South (773) 535-6210
Agassiz2851 N Seminary Av 60657 1100 West - 2851 North (773) 534-5725	Albany Park Acad5039 N Kimball Av 60625 3400 West - 5039 North (773) 534-5108
Alcott2625 N Orchard St 60614 700 West - 2625 North (773) 534-5460	Ariel Comm4434 S Lake Park Av Kennocott 60653 1148 East - 4434 South (773) 535-1996
Armour950 W 33rd Pl 60608 950 West - 3332 South (773) 535-4530	Armstrong5345 W Congress Py 60644 5345 West - 500 South (773) 534-6365
Armstrong G2110 W Greenleaf Av 60645 2110 West - 7032 North (773) 534-2150	Arts Of Living721 N LaSalle Dr 60610 140 West - 721 North (773) 534-8586
Ashe8505 S Ingleside Av 60619 932 East - 8505 South (773) 535-3550	Attucks3813 S Dearborn St 60609 32 West - 3813 South (773) 535-1270
Aldridge630 E 131st St 60627 630 East - 13100 South (773) 535-5614	Alex Haley Acad11411 S Eggleston Av 60628 432 West - 11411 South (773) 535-5340
Altgeld1340 W 71st St 60636 1340 West - 7100 South (773) 535-3250	Ames School1920 N Hamlin Av 60647 3800 West - 1920 North (773) 534-4970
Amundsen H S5110 N Damen Av 60625 2000 West - 5110 North (773) 534-2320	Andersen Comm Acad1148 N Honore St 60622 1832 West - 1148 North (773) 534-4276
Anderson Comm Acad6315 S Claremont Av 60636 2332 West - 6315 South (773) 535-9070	Arai Middle900 W Wilson Av 60640 900 West - 4600 North (773) 534-2610
Audubon3500 N Hoyne Av 60618 2100 West - 3500 North (773) 534-5470	Austin Comm H S231 N Pine Av 60644 5500 West - 231 North (773) 534-6300
Avalon Park8045 S Kenwood Av 60619 1332 East - 8045 South (773) 535-6615	Avondale2945 N Sawyer Av 60618 3232 West - 2945 North (773) 534-5244
Banneker6656 S Normal Bl 60621 500 West - 6656 South (773) 535-3020	Barbara Vick Cent2554 W 113th St 60655 2554 West - 11300 South (773) 535-2671
Barnard10354 S Charles St 60643 1432 West - 10354 South (773) 535-2625	Barry2828 N Kilbourn Av 60641 4500 West - 2828 North (773) 534-3455

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Barton7650 S Wolcott Av 60620 1900 West - 7650 South (773) 535-3260	Bass1140 W 66th St 60621 1140 West - 6600 South (773) 535-3275
Bateman4220 N Richmond St 60618 2932 West - 4220 North (773) 534-5055	Beard6445 W Strong St 60656 6445 West - 4932 North (773) 534-1230
Beasley Acad Mag5255 S State St 60609 1 East - 5255 South (773) 535-1230	Beaubien5025 N Laramie Av 60630 5200 West - 5025 North (773) 534-3500
Beethoven25 W 47th St 60609 25 West - 4700 South (773) 535-1480	Beidler3151 W Walnut St 60612 3151 West - 234 North (773) 534-6811
Belding4257 N Tripp Av 60641 4232 West - 4257 North (773) 534-3590	Bell3730 N Oakley Av 60618 2300 West - 3730 North (773) 534-5150
Bennett10115 S Prairie Av 60628 300 East - 10115 South (773) 535-5460	Bethune3030 W Arthington St 60612 3030 West - 900 South (773) 534-6890
Black Magnet9101 S Euclid Av 60617 1932 East - 9101 South (773) 535-6390	Blaine1420 W Grace St 60613 1420 West - 3800 North (773) 534-5750
Blair6751 W 63rd Pl 60638 6751 West - 6332 South (773) 535-2076	Bogan Tech H S3939 W 79th St 60652 3939 West - 7900 South (773) 535-2180
Bond7050 S May St 60621 1132 West - 7050 South (773) 535-3480	Bontemps1241 W 58th St 60636 1241 West - 5800 South (773) 535-9175
Boone6710 N Washtenaw Av 60645 2700 West - 6710 North (773) 534-2160	Bouchet Academy7355 S Jeffery Bl 60649 2000 East - 7355 South (773) 535-0501
Bowen H S2710 E 89th St 60617 2710 East - 8900 South (773) 535-6000	Bradwell7736 S Burnham Av 60649 2800 East - 7736 South (773) 535-6600
Brennemann4251 N Clarendon Av 60613 800 West - 4251 North (773) 534-5766	Brentano2723 N Fairfield Av 60647 2732 West - 2723 North (773) 534-4100
Bridge3800 N New England Av 60634 6900 West - 3800 North (773) 534-3718	Bright10740 S Calhoun Av 60617 2532 East - 10740 South (773) 535-6215
Brighton Park3825 S Washtenaw Av 60632 2700 West - 3825 South (773) 535-7237	Brown54 N Hermitage Av 60612 1732 West - 54 North (773) 534-7250
Brown Academy12607 S Union Av 60628 700 West - 12607 South (773) 535-5385	Brownell6741 S Michigan Av 60637 100 East - 6741 South (773) 535-3030

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Buckingham Sp Ed9207 S Phillips Av 60617 2421 East - 9207 South (773) 535-6422	Budlong2701 W Foster Av 60625 2701 West - 5200 North (773) 534-2591
Bunche6515 S Ashland Av 60636 1600 West - 6515 South (773) 535-9060	Burbank2035 N Mobile Av 60639 6300 West - 2035 North (773) 534-3000
Burke5356 S King Dr 60615 400 East - 5356 South (773) 535-1325	Burley1630 W Barry Av 60657 1630 West - 3100 North (773) 534-5475
Burnham Acad1903 E 96th St 60617 1903 East - 9600 South (773) 535-6530	Burnside Acad650 E 91st Pl 60619 650 East - 9132 South (773) 535-3300
Burr1621 W Wabansia Av 60622 1621 West - 1700 North (773) 534-4090	Burroughs3542 S Washtenaw Av 60632 2700 West - 3542 South (773) 535-7226
Byrd Comm Acad363 W Hill St 60610 363 West - 1100 North (773) 534-8430	Byrne5329 S Oak Park Av 60638 6800 West - 5329 South (773) 535-2170
C B York Alt Hs2700 S California Av 60608 2800 West - 2700 South (773) 535-7021	Caldwell8546 S Cregier Av 60617 1800 East - 8546 South (773) 535-6300
Calhoun North2833 W Adams St 60612 2833 West - 200 South (773) 534-6940	Calumet Acad H S8131 S May St 60620 1132 West - 8131 South (773) 535-3500
Cameron1234 N Monticello Av 60651 3632 West - 1234 North (773) 534-4290	Canty3740 N Panama Av 60634 8100 West - 3740 North (773) 534-1238
Cardenas2345 S Millard Av 60623 3632 West - 2345 South (773) 534-1465	Carnegie1414 E 61st Pl 60637 1414 East - 6132 South (773) 535-0530
Carpenter1250 W Erie St 60622 1250 West - 658 North (773) 534-7385	Carroll2929 W 83rd St 60652 2929 West - 8300 South (773) 535-9414
Carson5516 S Maplewood Av 60629 2532 West - 5516 South (773) 535-9222	Carter5740 S Michigan Av 60637 100 East - 5740 South (773) 535-0860
Carver Area H S13100 S Doty West Av 60627 13100 South (773) 535-5250	Carver Middle801 E 133rd Pl 60627 801 East - 13332 South (773) 535-5656
Carver Primary901 E 133rd Pl 60627 901 East - 13332 South (773) 535-5674	Casals Pablo3501 W Potomac Av 60651 3501 West - 1300 North (773) 534-4444
Cassell11314 S Spaulding Av 60655 3300 West - 11314 South (773) 535-2640	Castellanos2524 S Central Park Av 60623 3600 West - 2524 South (773) 534-1620

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Cather2908 W Washington Bl 60612 2908 West - 100 North (773) 534-6780	Chalmers2745 W Roosevelt Rd 60608 2745 West - 1200 South (773) 534-1720
Chappell2135 W Foster Av 60625 2135 West - 5200 North (773) 534-2390	Chase2021 N Point St 60647 2648 West - 2021 North (773) 534-4185
Chavez4747 S Marshfield Av 60609 1632 West - 4747 South (773) 535-4600	Chgo Intl Chr-Edm6105 S State St 60621 1 East - 6105 South N/A
Chgo Intl-BucktwN2242 N Hamilton Av 60647 2132 West - 2242 North N/A	Chgo Intl-Longwood1309 W 95th St 60643 1309 West - 9500 South (773) 238-5330
Chgo Intl-Prairie11530 S Prairie Av 60628 300 East - 11530 South (773) 928-0480	Chgo Military Acad3519 S Giles Av 60653 300 East - 3519 South (773) 534-9750
Chicago Agr H S3857 W 111th St 60655 3857 West - 11100 South (773) 535-2500	Chopin2450 W Rice St 60622 2450 West - 832 North (773) 534-4080
Christopher5042 S Artesian Av 60632 2432 West - 5042 South (773) 535-9375	Clark1045 S Monitor Av 60644 5832 West - 1045 South (773) 534-6225
Clark Middle5101 W Harrison St 60644 5101 West - 600 South (773) 534-6250	Clay13231 S Burley Av 60633 3234 East - 13231 South (773) 535-5600
Clissold2350 W 110th Pl 60643 2350 West - 11032 South (773) 535-2560	Coles8441 S Yates Bl 60617 2400 East - 8441 South (773) 535-6550
Collins H S1313 S Sacramento Dr 60623 3000 West - 1313 South (773) 534-1500	Colman4655 S Dearborn St 60609 32 West - 4655 South (773) 535-1450
Columbus1003 N Leavitt St 60622 2200 West - 1003 North (773) 534-4350	Cook8150 S Bishop St 60620 1432 West - 8150 South (773) 535-3315
Coonley4046 N Leavitt St 60618 2200 West - 4046 North (773) 534-5140	Cooper1624 W 19th St 60608 1624 West - 1900 South (773) 534-7205
Copernicus6010 S Throop St 60636 1300 West - 6010 South (773) 535-9180	Corkery2510 S Kildare Av 60623 4300 West - 2510 South (773) 534-1650
Corliss H S821 E 103rd St 60628 821 East - 10300 South (773) 535-5115	Courtenay1726 W Berteau Av 60613 1726 West - 4200 North (773) 534-5790
Clemente Comm Acad1147 N Western Av 60622 2400 West - 1147 North (773) 534-4000	Crane Tech H S2245 W Jackson Bl 60612 2245 West - 300 South (773) 534-7550

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Cleveland3121 W Byron St 60618 3121 West - 3900 North (773) 534-5130	Clinton6110 N Fairfield Av 60659 2732 West - 6110 North (773) 534-2025
Crown Comm Acad2128 S St Louis Av 60623 3500 West - 2128 South (773) 534-1680	Cuffe1540 W 84th St 60620 1540 West - 8400 South (773) 535-2660
Cullen10650 S Eberhart Av 60628 500 East - 10650 South (773) 535-5375	Curie Metro H S4959 S Archer Av 60632 3900 West - 4959 South (773) 535-2100
Curtis32 E 115th St 60628 32 East - 11500 South (773) 535-5050	Daley Acad5024 S Wolcott Av 60609 1900 West - 5024 South (773) 535-9091
Darwin3116 W Belden Av 60647 3116 West - 2300 North (773) 534-4110	Davis3014 W 39th Pl 60632 3014 West - 3932 South (773) 535-4540
Davis Acad6723 S Wood St 60636 1800 West - 6723 South (773) 535-9120	Davis Dev Center9101 S Jeffery Av 60617 2000 East - 9101 South (773) 535-6209
Dawes3810 W 81st Pl 60652 3810 West - 8132 South (773) 535-2350	De Diego Comm Acad1313 N Claremont Av 60622 2332 West - 1313 North (773) 534-4451
De La Cruz2317 W 23rd Pl 60608 2317 West - 2332 South (773) 535-4585	De Priest139 S Parkside Av 60644 5632 West - 139 South (773) 534-6165
Decatur Classical7030 N Sacramento Av 60645 3000 West - 7030 North (773) 534-2201	Delano3937 W Wilcox St 60624 3937 West - 132 South (773) 534-6620
Deneen7240 S Wabash Av 60619 45 East - 7240 South (773) 535-3035	Dett2306 W Maypole Av 60612 2306 West - 134 North (773) 534-7160
Dever3436 N Osceola Av 60634 7432 West - 3436 North (773) 534-3090	Dewey5415 S Union Av 60609 700 West - 5415 South (773) 535-1666
Dirksen8601 W Foster Av 60656 8601 West - 5200 North (773) 534-1090	Disney Magnet4140 N Marine Dr 60613 600 West - 4140 North (773) 534-5840
Dixon8306 S St Lawrence Av 60619 600 East - 8306 South (773) 535-3834	Dodge2651 W Washington Bl 60612 2651 West - 100 North (773) 534-6640
Donoghue707 E 37th St 60653 707 East - 3700 South (773) 535-1782	Doolittle Inter535 E 35th St 60616 535 East - 3500 South (773) 535-1040
Doolittle West521 E 35th St 60616 521 East - 3500 South (773) 535-1050	Dore6108 S Natoma Av 60638 6632 West - 6108 South (773) 535-2080

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Dorsey Prep Ctr9035 S Langley Av 60619 700 East - 9035 South (773) 535-9775	Douglas Comm Acad3200 S Calumet Av 60616 344 East - 3200 South (773) 534-9263
Douglass Academy543 N Waller Av 60644 5700 West - 543 North (773) 534-6176	Drake2722 S King Dr 60616 400 East - 2722 South (773) 534-9129
Drummond1845 W Cortland St 60622 1845 West - 1900 North (773) 534-4120	Dubois330 E 133rd St 60627 330 East - 13300 South (773) 535-5582
Dulles6311 S Calumet Av 60637 344 East - 6311 South (773) 535-0690	Dumas6650 S Ellis Av 60637 1000 East - 6650 South (773) 535-0750
Dunne10845 S Union Av 60628 700 West - 10845 South (773) 535-5518	Dusable H S4934 S Wabash Av 60615 45 East - 4934 South (773) 535-1100
Dvorak Acad3615 W 16th St 60623 3615 West - 1600 South (773) 534-1690	Dyett Middle555 E 51st St 60615 555 East - 5100 South (773) 535-1825
Earhart1710 E 93rd St 60617 1710 East - 9300 South (773) 535-6416	Earle6121 S Hermitage Av 60636 1732 West - 6121 South (773) 535-9130
Eberhart3400 W 65th Pl 60629 3400 West - 6532 South (773) 535-9190	Ebinger7350 W Pratt Av 60631 7350 West - 6800 North (773) 534-1070
Edgebrook6525 N Hiawatha Av 60646 5348 West - 6525 North (773) 534-1194	Edison6220 N Olcott Av 60631 7500 West - 6220 North (773) 534-1209
Edwards4815 S Karlov Av 60632 4100 West - 4815 South (773) 535-4875	Ellington224 N Central Av 60644 5600 West - 224 North (773) 534-6361
Emmet5500 W Madison St 60644 5500 West - 1 North (773) 534-6050	Englewood Acad H S6201 S Stewart Av 60621 400 West - 6201 South (773) 535-3600
Ericson3600 W Fifth Av 60624 3600 West - 400 South (773) 534-6660	Esmond1865 W Montvale Av 60643 1865 West - 11334 South (773) 535-2650
Everett3419 S Bell Av 60608 2232 West - 3419 South (773) 535-4550	Evergreen Acad3737 S Paulina St 60609 1700 West - 3737 South (773) 535-4836
Evers9811 S Lowe Av 60628 632 West - 9811 South (773) 535-2565	Fairfield Academy6201 S Fairfield Av 60629 2732 West - 6201 South (773) 535-9500
Falconer3020 N Lamon Av 60641 4900 West - 3020 North (773) 534-3560	Faraday3250 W Monroe St 60624 3250 West - 100 South (773) 534-6670

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Farnsworth5414 N Linder Av 60630 5500 West - 5414 North (773) 534-3535	Farragut Career Ac2345 S Christiana Av 60623 3332 West - 2345 South (773) 534-1300
Farren5055 S State St 60609 1 East - 5055 South (773) 535-1440	Fenger Acad H S11220 S Wallace St 60628 600 West - 11220 South (773) 535-5430
Fermi1415 E 70th St 60637 1415 East - 7000 South (773) 535-0540	Fernwood10041 S Union Av 60628 700 West - 10041 South (773) 535-2700
Field7019 N Ashland Bl 60626 1600 West - 7019 North (773) 534-2030	Finkl2332 S Western Av 60608 2400 West - 2332 South (773) 535-5850
Fiske6145 S Ingleside Av 60637 932 East - 6145 South (773) 535-0990	Flower Voc H S3545 W Fulton Bl 60624 3545 West - 300 North (773) 534-6755
Foreman H S3235 N Leclaire Av 60641 5100 West - 3235 North (773) 534-3400	Fort Dearborn9025 S Throop St 60620 1300 West - 9025 South (773) 535-2680
Foster Park8530 S Wood St 60620 1800 West - 8530 South (773) 535-2725	Foundations2040 W Adams St 60612 2040 West - 200 South (773) 534-7605
Franklin Magnet225 W Evergreen Av 60610 225 West - 1332 North (773) 534-8510	Frazier4027 W Grenshaw St 60624 4027 West - 1132 South (773) 534-6880
Fuller4214 S St Lawrence Av 60653 600 East - 4214 South (773) 535-1687	Fulton5300 S Hermitage Av 60609 1732 West - 5300 South (773) 535-9000
Funston2010 N Central Park Av 60647 3600 West - 2010 North (773) 534-4125	Future Com Prof Pr4071 S Lake Park Av 60653 1000 East - 4071 South (773) 535-1510
Future Comm Tech4071 S Lake Park Av 60653 1000 East - 4071 South (773) 535-1510	Gage Park H S5630 S Rockwell St 60629 2600 West - 5630 South (773) 535-9230
Gale Comm Acad1631 W Jonquil Tr 60626 1631 West - 7700 North (773) 534-2100	Galileo Scholastic820 S Carpenter St 60607 1032 West - 820 South (773) 534-7070
Gallistel Lang Aca10347 S Ewing Av 60617 3634 East - 10347 South (773) 535-6540	Garvey10309 S Morgan St 60643 1000 West - 10309 South (773) 535-2763
Garvy5225 N Oak Park Av 60656 6800 West - 5225 North (773) 534-1185	Gary3740 W 31st St 60623 3740 West - 3100 South (773) 534-1455
Gillespie9301 S State St 60619 1 East - 9301 South (773) 535-5065	Gladstone1231 S Damen Av 60608 2000 West - 1231 South (773) 534-7266

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Goethe2236 N Rockwell St 60647 2600 West - 2236 North (773) 534-4135	Goldblatt4257 W Adams St 60624 4257 West - 200 South (773) 534-6860
Gompers12302 S State St 60628 1 East - 12302 South (773) 535-5475	Goodlow Magnet2040 W 62nd St 60636 2040 West - 6200 South (773) 535-9365
Goudy5120 N Winthrop Av 60640 1100 West - 5120 North (773) 534-2480	Graham4436 S Union Av 60609 700 West - 4436 South (773) 535-1308
Graham Training Ct2347 S Wabash Av 60616 45 East - 2347 South (773) 534-9257	Grant145 S Campbell Av 60612 2500 West - 145 South (773) 534-7275
Gray3730 N Laramie Av 60641 5200 West - 3730 North (773) 534-3520	Greeley832 W Sheridan Rd 60613 832 West - 3900 North (773) 534-5800
Green Wendell1150 W 96th St 60643 1150 West - 9600 South (773) 535-2575	Greene3525 S Honore St 60609 1832 West - 3525 South (773) 535-4560
Gregory3715 W Polk St 60624 3715 West - 800 South (773) 534-6820	Gresham8524 S Green St 60620 832 West - 8524 South (773) 535-3350
Grimes5450 W 64th Pl 60638 5450 West - 6432 South (773) 535-2364	Grissom12810 S Escanaba Av 60633 2900 East - 12810 South (773) 535-5380
Guggenheim7141 S Morgan St 60621 1000 West - 7141 South (773) 535-3587	Gunsaulus Acad4420 S Sacramento Av 60632 3000 West - 4420 South (773) 535-7215
H B Stowe3444 W Wabansia Av 60647 3444 West - 1700 North (773) 534-4175	Haines247 W 23rd Pl 60616 247 West - 2332 South (773) 534-9200
Hale6140 S Melvina Av 60638 6200 West - 6140 South (773) 535-2265	Hamilton1650 W Cornelia Av 60657 1650 West - 3500 North (773) 534-5484
Hamline4747 S Bishop St 60609 1432 West - 4747 South (773) 535-4565	Hammond2819 W 21st Pl 60623 2819 West - 2132 South (773) 535-4580
Hancock Hs4350 W 79th St 60652 4350 West - 7900 South (773) 535-2410	Hanson Park5411 W Fullerton Av 60639 5411 West - 2400 North (773) 534-3100
Harlan Comm Acad9652 S Michigan Av 60628 100 East - 9652 South (773) 535-5400	Harper H S6520 S Wood St 60636 1800 West - 6520 South (773) 535-9150
Harte1556 E 56th St 60637 1556 East - 5600 South (773) 535-0870	Hartigan8 W Root St 60609 8 West - 4132 South (773) 535-1460

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Harvard7525 S Harvard Av 60620 332 West - 7525 South (773) 535-3045	Haugan4540 N Hamlin Av 60625 3800 West - 4540 North (773) 534-5040
Hawthorne Acad3319 N Clifton Av 60657 1132 West - 3319 North (773) 534-5550	Hay Comm Acad1018 N Laramie Av 60651 5200 West - 1018 North (773) 534-6000
Hayes A P C6533 S Stewart Av 60621 400 West - 6533 South (773) 535-3334	Hayt1518 W Granville Av 60660 1518 West - 6200 North (773) 534-2040
Healy3010 S Parnell Av 60616 532 West - 3010 South (773) 534-9190	Hearst4640 S Lamon Av 60638 4900 West - 4640 South (773) 535-2376
Hedges4747 S Winchester Av 60609 1932 West - 4747 South (773) 535-7360	Hefferan4409 W Wilcox St 60624 4409 West - 132 South (773) 534-6192
Henderson5650 S Wolcott Av 60636 1900 West - 5650 South (773) 535-9080	Hendricks Comm Aca4316 S Princeton Av 60609 300 West - 4316 South 773) 535-1696
Henry4250 N St Louis Av 60618 3500 West - 4250 North (773) 534-5060	Henson1326 S Avers Av 60623 3832 West - 1326 South (773) 534-1804
Herbert2131 W Monroe St 60612 2131 West - 100 South (773) 534-7806	Hernandez Center3814 W Iowa St 60651 3814 West - 900 North (773) 534-4960
Heroes Academic8344 S Commercial Av 60617 3000 East - 8344 South (773) 535-6694	Herzl3711 W Douglas Bl 60623 3711 West - 1400 South (773) 534-1480
Hibbard3244 W Ainslie St 60625 3244 West - 4900 North (773) 534-5191	Higgins Comm Acad11710 S Morgan St 60643 1000 West - 11710 South (773) 535-5625
Hinton644 W 71st St 60621 644 West - 7100 South (773) 535-3875	Hirsch Metro H S7740 S Ingleside Av 60619 932 East - 7740 South (773) 535-3100
Hitch5625 N Mcvicker Av 60646 6032 West - 5625 North (773) 534-1189	Holden1104 W 31st St 60608 1104 West - 3100 South (773) 535-7200
Holmes955 W Garfield Bl 60621 955 West - 5500 South (773) 535-9025	Hope College Prep5515 S Lowe Av 60621 632 West - 5515 South (773) 535-3160
Howe720 N Lorel Av 60644 5332 West - 720 North (773) 534-6060	Howland1616 S Spaulding Av 60623 3300 West - 1616 South (773) 534-1753
Hoyne8905 S Crandon Av 60617 2300 East - 8905 South (773) 535-6425	Hubbard H S6200 S Hamlin Av 60629 3800 West - 6200 South (773) 535-2200

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Hughes C E4247 W 15th St 60623 4247 West - 1500 South (773) 534-1762	Hughes L226 W 104th St 60628 226 West - 10400 South (773) 535-5075
Hurley3849 W 69th Pl 60629 3849 West - 6932 South (773) 535-2068	Hyde Park Acad H S6220 S Stony Island Av 60637 1600 East - 6220 South (773) 535-0880
Inter-American919 W Barry Av 60657 919 West - 3100 North (773) 534-5490	Irving749 S Oakley Bl 60612 2300 West - 749 South (773) 534-7295
Irving Park Middle3815 N Kedvale Av 60641 4132 West - 3815 North (773) 534-3750	Jackson Acad1340 W Harrison St 60607 1340 West - 600 South (773) 534-7000
Jackson Mahalia917 W 88th St 60620 917 West - 8800 South (773) 535-3341	Jahn3149 N Wolcott Av 60657 1900 West - 3149 North (773) 534-5500
Jamieson5650 N Mozart St 60659 2832 West - 5650 North (773) 534-2395	Jefferson N1100 S Hamilton Av 60612 2132 West - 1100 South (773) 433-7110
Jefferson T1522 W Fillmore St 60607 1522 West - 1100 South (773) 534-7305	Jenner1009 N Cleveland Av 60610 500 West - 1009 North (773) 534-8440
Jensen School Acad3030 W Harrison St 60612 3030 West - 600 South (773) 534-6840	Johns Academy6936 S Hermitage Av 60636 1732 West - 6936 South (773) 535-9144
Johnson1420 S Albany Av 60623 3100 West - 1420 South (773) 534-1829	Jones Magnet H S606 S State St 60605 1 East - 606 South (773) 534-8600
Joplin7931 S Honore St 60620 1832 West - 7931 South (773) 535-3425	Jordan School7414 N Wolcott Av 60626 1900 West - 7414 North (773) 534-2220
Juarez H S2150 S Laflin St 60608 1500 West - 2150 South (773) 534-7030	Julian H S10330 S Elizabeth St 60643 1232 West - 10330 South (773) 535-5170
Jungman1746 S Miller St 60608 1030 West - 1746 South (773) 534-7375	Kanoon Magnet2233 S Kedzie Av 60623 3200 West - 2233 South (773) 534-1736
Keller Magnet3020 W 108th St 60655 3020 West - 10800 South (773) 535-2636	Kellman Corp Comm751 S Sacramento Bl 60612 3000 West - 751 South (773) 534-6602
Kellogg9241 S Leavitt St 60620 2200 West - 9241 South (773) 535-2590	Kelly H S4136 S California Av 60632 2800 West - 4136 South (773) 535-4900
Kelvyn Park H S4343 W Wrightwood Av 60639 4343 West - 2600 North (773) 534-4200	Kennedy H S6325 W 56th St 60638 6325 West - 5600 South (773) 535-2325

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Kenwood Acad H S5015 S Blackstone Av 60615 1500 East - 5015 South (773) 535-1350	Kershaw6450 S Lowe Av 60621 632 West - 6450 South (773) 535-3050
Key517 N Parkside Av 60644 5632 West - 517 North (773) 534-6230	Kilmer6700 N Greenview Av 60626 1500 West - 6700 North (773) 534-2115
King740 S Campbell Av 60612 2500 West - 740 South (773) 534-7898	King H S4445 S Drexel Bl 60653 900 East - 4445 South (773) 535-1180
Kinzie School5625 S Mobile Av 60638 6300 West - 5625 South (773) 535-2425	Kipling9351 S Lowe Av 60620 632 West - 9351 South (773) 535-3151
Kohn10414 S State St 60628 1 East - 10414 South (773) 535-5489	Kozminski Com Acad936 E 54th St 60615 936 East - 5400 South (773) 535-0980
Lafayette2714 W Augusta Bl 60622 2714 West - 1000 North (773) 534-4326	Lake View H S4015 N Ashland Av 60613 1600 West - 4015 North (773) 534-5440
Lane Tech H S2501 W Addison St 60618 2501 West - 3600 North (773) 534-5400	Lara Academy4619 S Wolcott Av 60609 1900 West - 4619 South (773) 535-4389
Las Casas Occ H S8401 S Saginaw Av 60617 2638 East - 8401 South (773) 535-6050	Lasalle Lang Acad1734 N Orleans St 60614 340 West - 1734 North (773) 534-8470
Lathrop1440 S Christiana Av 60623 3332 West - 1440 South (773) 534-1812	Lavizzo Elementary138 W 109th St 60628 138 West - 10900 South (773) 535-5300
Lawndale Comm Acad3500 W Douglas Bl 60623 3500 West - 1400 South (773) 534-1635	Lawrence9928 S Crandon Av 60617 2300 East - 9928 South (773) 535-6320
Lee6448 S Tripp Av 60629 4232 West - 6448 South (773) 535-2255	Leland5221 W Congress Py 60644 5221 West - 500 South (773) 534-6340
Lemoyne851 W Waveland Av 60613 851 West - 3700 North (773) 534-5736	Lenart8445 S Kolin Av 60652 4332 West - 8445 South (773) 535-2322
Lewis1431 N Leamington Av 60651 5132 West - 1431 North (773) 534-3060	Libby5300 S Loomis Bl 60609 1400 West - 5300 South (773) 535-9050
Lincoln615 W Kemper Pl 60614 615 West - 2332 North (773) 534-5720	Lincoln Park H S2001 N Orchard St 60614 700 West - 2001 North (773) 534-8130
Lindblom Cphs 7-L26130 S Wolcott Av 60636 1900 West - 6130 South (773) 535-9300	Linne3221 N Sacramento Av 60618 3000 West - 3221 North (773) 534-5262

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Little Village2620 S Lawndale Av 60623 3700 West - 2620 South (773) 534-1880	Lloyd2103 N Lamon Av 60639 4900 West - 2103 North (773) 534-3070
Locke2845 N Newcastle Av 60634 6832 West - 2845 North (773) 534-3300	Locke Chtr School3125 W Jackson Bl 60612 3125 West - 300 South N/A
Logandale Middle3212 W George St 60618 3212 West - 2900 North (773) 534-5350	Lovett6333 W Bloomingdale Av 60639 6333 West - 1800 North (773) 534-3130
Lowell3320 W Hirsch St 60651 3320 West - 1400 North (773) 534-4300	Lozano Bilingual1424 N Cleaver St 60622 1432 West - 1424 North (773) 534-4150
Lyon2941 N Mcvicker Av 60634 6032 West - 2941 North (773) 534-3120	Madero Middle3202 W 28th St 60623 3202 West - 2800 South (773) 535-4466
Madison7433 S Dorchester Av 60619 1400 East - 7433 South (773) 535-0551	Manierre1420 N Hudson Av 60610 432 West - 1420 North (773) 534-8456
Manley Career Acad2935 W Polk St 60612 2935 West - 800 South (773) 534-6900	Mann8050 S Chappel Av 60617 2032 East - 8050 South (773) 535-6640
Marconi Comm Acad230 N Kolmar Av 60624 4532 West - 230 North (773) 534-6210	Marquette West6550 S Richmond St 60629 2932 West - 6550 South (773) 535-9260
Marsh9810 S Exchange Av 60617 2932 East - 9810 South (773) 535-6430	Marshall Metro H S3250 W Adams St 60624 3250 West - 200 South (773) 534-6455
Marshall Middle3900 N Lawndale Av 60618 3700 West - 3900 North (773) 534-5200	Mason4217 W 18th St 60623 4217 West - 1800 South (773) 534-1530
Mather H S5835 N Lincoln Av 60659 2932 West - 5835 North (773) 534-2350	May Comm Acad512 S Laverne Av 60644 5000 West - 512 South (773) 534-6140
Mayer2250 N Clifton Av 60614 1132 West - 2250 North (773) 534-5535	Mayo249 E 37th St 60653 249 East - 3700 South (773) 535-1260
Mays Acad1800 W Garfield Bl 60609 1800 West - 5500 South (773) 535-9395	Mcauliffe1841 N Springfield Av 60647 3900 West - 1841 North (773) 534-4400
Mcclellan3527 S Wallace St 60609 600 West - 3527 South (773) 535-1732	Mccorkle4421 S State St 60609 1 East - 4421 South (773) 535-1793
McCormick2712 S Sawyer Av 60623 3232 West - 2712 South (773) 535-7252	Mccosh6543 S Champlain Av 60637 635 East - 6543 South (773) 535-0570

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Mccutcheon4865 N Sheridan Rd 60640 1000 West - 4865 North (773) 534-2680	Mcdade Classical8801 S Indiana Av 60619 200 East - 8801 South (773) 535-3669
Mcdowell1419 E 89th St 60619 1419 East - 8900 South (773) 535-6404	Mckay6901 S Fairfield Av 60629 2732 West - 6901 South (773) 535-9340
Mcnair Acad Ctr849 N Leamington Av 60651 5132 West - 849 North (773) 534-6100	Mcperson4728 N Wolcott Av 60640 1900 West - 4728 North (773) 534-2625
Medill Elementary1301 W 14th St 60608 1301 West - 1400 South (773) 534-7750	Melody412 S Keeler Av 60624 4200 West - 412 South (773) 534-6850
Metcalfe Comm Acad12339 S Normal Av 60628 500 West - 12339 South (773) 535-5590	Milton Brunson5035 W North Av 60639 5035 West - 1600 North (773) 534-3246
Milton Olive Apc5125 S Princeton Av 60609 300 West - 5125 South (773) 535-1960	Mireles9000 S Exchange Av 60617 2932 East - 9000 South (773) 535-6360
Mitchell2233 W Ohio St 60612 2233 West - 600 North (773) 534-7655	Mollison4415 S King Dr 60653 400 East - 4415 South (773) 535-1804
Monroe3651 W Schubert Av 60647 3651 West - 2700 North (773) 534-4155	Montefiore Special1310 S Ashland Av 60608 1600 West - 1310 South (773) 534-7825
Moos1711 N California Av 60647 2800 West - 1711 North (773) 534-4340	Morgan8407 S Kerfoot Av 60620 700 West - 8407 South (773) 535-3366
Morgan Park H S1744 W Pryor Av 60643 1744 West - 11200 South (773) 535-2550	Morrill6011 S Rockwell St 60629 2600 West - 6011 South (773) 535-9288
Morse620 N Sawyer Av 60624 3232 West - 620 North (773) 534-6680	Morton Career Acad431 N Troy St 60612 3132 West - 431 North (773) 534-6791
Mozart2200 N Hamlin Av 60647 3800 West - 2200 North (773) 534-4160	Mt Greenwood10841 S Homan Av 60655 3400 West - 10841 South (773) 535-2786
Mt Vernon10540 S Morgan St 60643 1000 West - 10540 South (773) 535-2825	Munoz Marin Prim3320 W Evergreen Av 60651 3320 West - 1332 North (773) 534-4315
Murphy3539 W Grace St 60618 3539 West - 3800 North (773) 534-5223	Murray Lang Acad5335 S Kenwood Av 60615 1332 East - 5335 South (773) 535-0585
Nash4837 W Erie St 60644 4837 West - 658 North (773) 534-6125	Near No Career H S1450 N Larrabee St 60610 600 West - 1450 North (773) 534-8330

**Appendix A-2 Chicago Public School Sites
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CHICAGO PUBLIC SCHOOL SITES

Near No Sp Ed Ctr739 N Ada St 60622 1332 West - 739 North (773) 534-7846	Neil8555 S Michigan Av 60619 100 East - 8555 South (773) 535-3000
Nettelhorst3252 N Broadway Av 60657 600 West - 3252 North (773) 534-5810	New Dawes Area3434 W 77th St 60652 3434 West - 7700 South (773) 535-9888
Newberry Magnet700 W Willow St 60614 700 West - 1800 North (773) 534-8000	Nia2040 W Adams St 60612 2040 West - 200 South (773) 534-7490
Nicholson6006 S Peoria St 60621 900 West - 6006 South (773) 535-3285	Nightingale5250 S Rockwell St 60632 2600 West - 5250 South (773) 535-9270
Nixon2121 N Keeler Av 60639 4200 West - 2121 North (773) 534-4375	Nobel4127 W Hirsch St 60651 4127 West - 1400 North (773) 534-4365
Noble St Chtr Hs1400 W Augusta Bl 60622 60622 1400 West - 1000 North (773) 862-1449	Northside Center3730 W Bryn Mawr Av 60659 3730 West - 5600 North (773) 534-5180
Northwest Middle5252 W Palmer St 60639 5252 West - 2200 North (773) 534-3250	Norwood Park5900 N Nina Av 60631 7200 West - 5900 North (773) 534-1198
Nrthsidecollege Pr5501 N Kedzie Av 60625 3200 West - 5501 North (773) 534-3954	Nth Kenwood Chartr1313 E 60th St 60637 1313 East - 6000 South N/A
O'Toole6550 S Seeley Av 60636 2032 West - 6550 South (773) 535-9040	Octavio Paz Chartr2401 W Congress Py 60612 2401 West - 500 South (773) 432-1170
Ogden24 W Walton St 60610 24 West - 932 North (773) 534-8110	Oglesby7646 S Green St 60620 832 West - 7646 South (773) 535-3060
Okeeffe6940 S Merrill Av 60649 2132 East - 6940 South (773) 535-0600	Onahan6634 W Raven St 60631 6634 West - 6300 North (773) 534-1180
Oriole Park5424 N Oketo Av 60656 7400 West - 5424 North (773) 534-1201	Orozco Academy1645 W 18th Pl 60608 1645 West - 1832 South (773) 534-7215
Orr Comm Acad H S730 N Pulaski Rd 60624 4000 West - 730 North (773) 534-6500	Ortiz De Dominguez3000 S Lawndale Av 60623 3700 West - 3000 South (773) 534-1600
Otis525 N Armour St 60622 1500 West - 525 North (773) 534-7665	Overton221 E 49th St 60615 221 East - 4900 South (773) 535-1430
Owen Schol Acad8247 S Christiana Av 60652 3332 West - 8247 South (773) 535-9330	Owens Comm Acad12450 S State St 60628 1 East - 12450 South (773) 535-5661

**Appendix A-2 Chicago Public School Sites
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CHICAGO PUBLIC SCHOOL SITES

Paderewski2221 S Lawndale Av 60623 3700 West - 2221 South (773) 534-1821	Palmer5051 N Kenneth Av 60630 4432 West - 5051 North (773) 534-3704
Park Manor7037 S Rhodes Av 60637 532 East - 7037 South (773) 535-3070	Parker Comm Acad6800 S Stewart Av 60621 400 West - 6800 South (773) 535-3375
Parkman245 W 51st St 60609 245 West - 5100 South (773) 535-1739	Parkside Comm Acad6938 S East End Av 60649 1700 East - 6938 South (773) 535-0940
Partee Apc8101 S Lasalle St 60620 150 West - 8101 South (773) 535-0040	Pasteur5825 S Kostner Av 60629 4400 West - 5825 South (773) 535-2270
Peabody1444 W Augusta Bl 60622 1444 West - 1000 North (773) 534-4170	Peck3826 W 58th St 60629 3826 West - 5800 South (773) 535-2450
Peirce1423 W Bryn Mawr Av 60660 1423 West - 5600 North (773) 534-2440	Penn1616 S Avers Av 60623 3832 West - 1616 South (773) 534-1665
Perez1241 W 19th St 60608 1241 West - 1900 South (773) 534-7650	Pershing Magnet3113 S Rhodes Av 60616 532 East - 3113 South (773) 534-9272
Perspectives Chrtr1532 S Michigan Av 60605 100 East - 1532 South (773) 431-8770	Peterson5510 N Christiana Av 60625 3332 West - 5510 North (773) 534-5070
Phillips Acad244 E Pershing Rd 60653 244 East - 3900 South (773) 535-1603	Piccolo Elementary1040 N Keeler Av 60651 4200 West - 1040 North (773) 534-4425
Piccolo Middle1040 N Keeler Av 60651 4200 West - 1040 North (773) 534-4565	Pickard2301 W 21st Pl 60608 2301 West - 2132 South (773) 535-7280
Pilsen Comm Acad1420 W 17th St 60608 1420 West - 1700 South (773) 534-7675	Pirie650 E 85th St 60619 650 East - 8500 South (773) 535-3435
Plamondon2642 W 15th Pl 60608 2642 West - 1532 South (773) 534-1789	Poe Classical10538 S Langley Av 60628 700 East - 10538 South (773) 535-5525
Pope1852 S Albany Av 60623 3100 West - 1852 South (773) 534-1795	Portage Park5330 W Berteau Av 60641 5330 West - 4200 North (773) 534-3576
Powell7530 S South Shore Dr 60649 2848 East - 7530 South (773) 535-6650	Prescott1632 W Wrightwood Av 60614 1632 West - 2600 North (773) 534-5505
Price4351 S Drexel Bl 60653 900 East - 4351 South (773) 535-1300	Pritzker2009 W Schiller St 60622 2009 West - 1400 North (773) 534-4415

**Appendix A-2 Chicago Public School Sites
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CHICAGO PUBLIC SCHOOL SITES

Proctor Apc838 W Marquette Rd 60621 838 West - 6700 South (773) 535-3892	Prosser Career Aca2148 N Long Av 60639 5400 West - 2148 North (773) 534-3200
Prussing4650 N Menard Av 60630 5800 West - 4650 North (773) 534-3460	Pulaski Comm Acad2230 W Mclean Av 60647 2230 West - 2032 North (773) 534-4391
Pullman11311 S Forrestville Av 60628 535 East - 11311 South (773) 535-5395	Randolph Magnet7316 S Hoyne Av 60636 2100 West - 7316 South (773) 535-9015
Ravenswood4332 N Paulina St 60613 1700 West - 4332 North (773) 534-5525	Ray5631 S Kimbark Av 60637 1300 East - 5631 South (773) 535-0970
Raymond3663 S Wabash Av 60653 45 East - 3663 South (773) 535-1745	Reavis834 E 50th St 60615 834 East - 5000 South (773) 535-1060
Recov/Gifted Child3030 W Arthington St 3rd Flr E 60612 3030 West - 900 South (773) 534-8800	Reed6350 S Stewart Av 60621 400 West - 6350 South (773) 535-3075
Reilly3650 W School St 60618 3650 West - 3300 North (773) 534-5250	Reinberg3425 N Major Av 60634 5700 West - 3425 North (773) 534-3465
Revere1010 E 72nd St 60619 1010 East - 7200 South (773) 535-0618	Richards Car Acad5009 S Laflin St 60609 1500 West - 5009 South (773) 535-4945
Riis1018 S Lytle St 60607 1242 West - 1018 South (773) 534-7120	Robeson H S6835 S Normal Bl 60621 500 West - 6835 South (773) 535-3800
Robinson4225 S Lake Park Av 60653 1100 East - 4225 South (773) 535-1777	Rodriguez Prep630 W Irving Park Rd 60613 630 West - 4000 North (773) 534-5900
Rogers7345 N Washtenaw Av 60645 2700 West - 7345 North (773) 534-2125	Roosevelt H S3436 W Wilson Av 60625 3436 West - 4600 North (773) 534-5000
Roque De Duprey1405 N Washtenaw Av 60622 2700 West - 1405 North (773) 534-4230	Ross6059 S Wabash Av 60637 45 East - 6059 South (773) 535-0650
Rudolph Learn Ctr110 N Paulina St 60612 1700 West - 110 North (773) 534-7460	Ruggles7831 S Prairie Av 60619 300 East - 7831 South (773) 535-3085
Ruiz2410 S Leavitt St 60608 2200 West - 2410 South (773) 535-4825	Ryder8716 S Wallace St 60620 600 West - 8716 South (773) 535-3843
Ryerson646 N Lawndale Av 60624 3700 West - 646 North (773) 534-6700	Sabin Magnet2216 W Hirsch St 60622 2216 West - 1400 North (773) 534-4491

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Safe Schls Altern6434 S University Av 60637 1132 East - 6434 South (773) 535-0807	Salazar Bil Ed Ctr160 W Wendell St 60610 160 West - 1028 North (773) 534-8310
Sandoval School5534 S St Louis Av 60629 3500 West - 5534 South (773) 535-0457	Saucedo Schol Acad2850 W 24th Bl 60623 2850 West - 2400 South (773) 534-1770
Sauganash6040 N Kilpatrick Av 60646 4700 West - 6040 North (773) 534-3470	Sawyer5248 S Sawyer Av 60632 3232 West - 5248 South (773) 535-9275
Sayre Lang Acad1850 N Newland Av 60635 6932 West - 1850 North (773) 534-3351	Scammon4201 W Henderson St 60641 4201 West - 3332 North (773) 534-3475
Schiller640 W Scott St 60610 640 West - 1235 North (773) 534-8490	Schmid9755 S Greenwood Av 60628 1100 East - 9755 South (773) 535-6235
Schneider2957 N Hoyne Av 60618 2100 West - 2957 North (773) 534-5510	Schubert2727 N Long Av 60639 5400 West - 2727 North (773) 534-3080
Schurz H S3601 N Milwaukee Av 60641 4348 West - 3601 North (773) 534-3420	Senn Metro Acad5900 N Glenwood Av 60660 1400 West - 5900 North (773) 534-2365
Seward4600 S Hermitage Av 60609 1732 West - 4600 South (773) 535-4890	Sexton A O6020 S Langley Av 60637 700 East - 6020 South (773) 535-0640
Shabazz Charter7823 S Ellis Av 60619 1000 East - 7823 South (773) 651-1221	Sheridan Magnet533 W 27th St 60616 533 West - 2700 South (773) 534-9120
Sherman1000 W 52nd St 60609 1000 West - 5200 South (773) 535-1757	Sherwood245 W 57th St 60621 245 West - 5700 South (773) 535-0829
Shields4250 S Rockwell St 60632 2600 West - 4250 South (773) 535-7285	Shoesmith1330 E 50th St 60615 1330 East - 5000 South (773) 535-1764
Shoop1460 W 112th St 60643 1460 West - 11200 South (773) 535-2715	Simeon Career Acad8235 S Vincennes Av 60620 448 West - 8235 South (773) 535-3200
Simpson H S1321 S Paulina St 60608 1700 West - 1321 South (773) 534-7812	Skinner111 S Throop St 60607 1300 West - 111 South (773) 534-7790
Smith744 E 103rd St 60628 744 East - 10300 South (773) 535-5689	Smyser4310 N Melvina Av 60634 6200 West - 4310 North (773) 534-3711
Smyth1059 W 13th St 60608 1059 West - 1300 South (773) 534-7180	So Shore Comm Acad7529 S Constance Av 60649 1832 East - 7529 South (773) 535-6180

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Solomon6206 N Hamlin Av 60659 3800 West - 6206 North (773) 534-5226	Songhai11725 S Perry Av 60628 100 West - 11725 South (773) 535-5547
South Loop1212 S Plymouth Ct 60605 31 West - 1212 South (773) 534-8690	Southside Acad7342 S Hoyne Av 60636 2100 West - 7342 South (773) 535-9100
Southside Col Prep250 E 111th St 60628 250 East - 11100 South (773) 535-9930	Spalding1628 W Washington Bl 60612 1628 West - 100 North (773) 534-7400
Spalding H S1628 W Washington Bl 60612 1628 West - 100 North (773) 534-7400	Spencer214 N Laverne Av 60644 5000 West - 214 North (773) 534-6150
Spry2400 S Marshall Bl 60623 2900 West - 2400 South (773) 534-1700	Stagg7424 S Morgan St 60621 1000 West - 7424 South (773) 535-3565
Steinmetz HS 3030N Mobile Av 60634 6300 West - 3030 North (773) 534-3030	Stevenson8010 S Kostner Av 60652 4400 West - 8010 South (773) 535-2280
Stewart4525 N Kenmore Av 60640 1038 West - 4525 North (773) 534-2640	Stock7507 W Birchwood Av 60631 7507 West - 7500 North (773) 534-1215
Stockton4420 N Beacon St 60640 1338 West - 4420 North (773) 534-2450	Stone Acad6239 N Leavitt St 60659 2200 West - 6239 North (773) 534-2045
Suder2022 W Washington Bl 60612 2022 West - 100 North (773) 534-7685	Sullivan H S6631 N Bosworth Av 60626 1532 West - 6631 North (773) 534-2000
Sullivan Specialty8255 S Houston Av 60617 3032 East - 8255 South (773) 535-6585	Sumner4320 W Fifth Av 60624 4320 West - 800 South (773) 534-6730
Sutherland10015 S Leavitt St 60643 2200 West - 10015 South (773) 535-2580	Swift5900 N Winthrop Av 60660 1100 West - 5900 North (773) 534-2695
Taft H S6545 W Hurlbut St 60631 6545 West - 5800 North (773) 534-1000	Talcott1840 W Ohio St 60622 1840 West - 600 North (773) 534-7130
Tanner7350 S Evans Av 60619 732 East - 7350 South (773) 535-3870	Taylor9912 S Avenue H 60617 3732 East - 9912 South (773) 535-6240
Telpochcalli2832 W 24th Bl 60623 2832 West - 2400 South (773) 534-1402	Terrell5410 S State St 60609 1 East - 5410 South (773) 535-1490
Tesla Alternative6657 S Kimbark Av 60637 1300 East - 6657 South (773) 535-0780	Thorp J N8914 S Buffalo Av 60617 3300 East - 8914 South (773) 535-6250

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Thorp O A Acad6024 W Warwick Av 60634 6024 West - 3732 North (773) 534-3640	Tilden H S4747 S Union Av 60609 700 West - 4747 South (773) 535-1625
Tilton223 N Keeler Av 60624 4200 West - 223 North (773) 534-6746	Tonti5815 S Homan Av 60629 3400 West - 5815 South (773) 535-9280
Transition B H S2245 N Mcvicker Av 60639 6032 West - 2245 North (773) 534-3175	Transition D2641 S Calumet Av 60616 344 East - 2641 South (773) 534-9727
Triumphant Charter4953 S Seeley Av 60609 2032 West - 4953 South (773) 918-0766	Trumbull5200 N Ashland Av 60640 1600 West - 5200 North (773) 534-2430
Truth1443 N Ogden Av 60610 732 West - 1443 North (773) 534-8120	Turner-Drew Lang9300 S Princeton Av 60620 300 West - 9300 South (773) 535-5720
Twain5131 S Linder Av 60638 5500 West - 5131 South (773) 535-2290	Vanderpoel Magnet9510 S Prospect Av 60643 1700 West - 9510 South (773) 535-2690
Vaughn Occ H S4355 N Linder Av 60641 5500 West - 4355 North (773) 534-3600	Volta4950 N Avers Av 60625 3832 West - 4950 North (773) 534-5080
Von Humboldt2620 W Hirsch St 60622 2620 West - 1400 North (773) 534-4480	Von Steuben Metro5039 N Kimball Av 60625 3400 West - 5039 North (773) 534-5100
Wacker9746 S Morgan St 60643 1000 West - 9746 South (773) 535-2821	Wadsworth6420 S University Av 60637 1132 East - 6420 South (773) 535-0730
Walsh2031 S Peoria St 60608 900 West - 2031 South (773) 534-7950	Walter Payton1034 N Wells St 60610 200 West - 1034 North (773) 534-0034
Ward2701 S Shields Av 60616 332 West - 2701 South (773) 534-9050	Ward Laura410 N Monticello Av 60624 3632 West - 410 North (773) 534-6440
Warren9239 S Jeffery Av 60617 2000 East - 9239 South (773) 535-6625	Washington G3611 E 114th St 60617 3611 East - 11400 South (773) 535-5010
Washington H9130 S University Av 60619 1132 East - 9130 South (773) 535-6225	Washington H S3535 E 114th St 60617 3535 East - 11400 South (773) 535-5725
Waters4540 N Campbell Av 60625 2500 West - 4540 North (773) 534-5090	Webster4055 W Arthington St 60624 4055 West - 900 South (773) 534-6925
Wells Hs936 N Ashland Av 60622 1600 West - 936 North (773) 534-7010	Wells Prep244 E Pershing Rd 60653 244 East - 3900 South (773) 535-1603

**Appendix A-2 Chicago Public School Sites
(continued)**

CHICAGO PUBLIC SCHOOL SITES

Wentworth6950 S Sangamon St 60621 932 West - 6950 South (773) 535-3394	West Park Academy1425 N Tripp Av 60651 4232 West - 1425 North (773) 534-4940
West Pullman11941 S Parnell Av 60628 532 West - 11941 South (773) 535-5500	Westcott409 W 80th St 60620 409 West - 8000 South (773) 535-3090
Westinghouse Car3301 W Franklin Bl 60624 3301 West - 500 North (773) 534-6400	Whistler11533 S Ada St 60643 1332 West - 11533 South (773) 535-5560
White1136 W 122nd St 60643 1136 West - 12200 South (773) 535-5671	Whitney2815 S Komensky Av 60623 4032 West - 2815 South (773) 534-1560
Whittier1900 W 23rd St 60608 1900 West - 2300 South (773) 535-4590	Wildwood6950 N Hiawatha Av 60646 6000 West - 6950 North (773) 534-1188
Williams2710 S Dearborn St 60616 32 West - 2710 South (773) 534-9226	Wirth Experimental4959 S Blackstone Av 60615 1500 East - 4959 South (773) 535-1410
Woodlawn Comm6434 S University Av 60637 1132 East - 6434 South (773) 535-0801	Woods Academy6206 S Racine Av 60636 1200 West - 6206 South (773) 535-9250
Woodson North4414 S Evans Av 60653 732 East - 4414 South (773) 535-1290	Woodson South4444 S Evans Av 60653 732 East - 4444 South (773) 535-1280
Wright627 N Harding Av 60624 3932 West - 627 North (773) 534-6870	Yale7025 S Princeton Av 60621 300 West - 7025 South (773) 535-3190
Yates1839 N Richmond St 60647 2932 West - 1839 North (773) 534-4550	Yng Women Lead Chr3420 S State St 60616 1 East - 3420 South N/A
Young1434 N Parkside Av 60651 5632 West - 1434 North (773) 534-6200	Young Magnet H S211 S Laflin St 60607 1500 West - 211 South (773) 534-7500
Zapata Academy2728 S Kostner Av 60623 4400 West - 2728 South (773) 534-1390	

Appendix A-3

Chicago Public Library Sites

Chicago Public Library Sites

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Library	Jeffery Manor Branch	747-6479	2401	E	100th St	South Deering	7
Library	Hegewisch Branch	747-0046	3048	E	130th St	Hegewisch	9
Library	Altgeld Branch	747-5952	950	E	132 Pl	Riverdale	39
Library	Douglass Branch	747-3725	3353	W	13th St	North Lawndale	9
Library	Toman Branch	747-8114	4005	W	27th St	South Lawndale	10
Library	McKinley Park Branch	747-6082	1915	W	35th St	East Garfield Park	24
Library	Canaryville Branch		642	W	43rd St	New City	10
Library	Gage Park Branch	747-0032	2807	W	55th St	Gage Park	6
Library	Clearing Branch	747-5657	6423	W	63rd Pl	Clearing	19
Library	West Lawn Branch	747-7381	4020	W	63rd St	West Lawn	7
Library	Bessie Coleman Branch	747-7760	731	E	63rd St	Woodlawn	18
Library	South Shore Branch	747-5281	2505	E	73rd St	South Shore	11
Library	Southeast Branch	747-7177	1934	E	79th St	South Chicago	6
Library	Scottsdale Branch	747-0193	4101	W	79th St	Ashburn	9
Library	Brainerd Branch	747-6291	1350	W	89th St	Washington Heights	16
Library	Beverly Branch	747-9673	2121	W	95th St	Beverly	16
Library	West Addison Branch	746-4704	7536	W	Addison St	Dunning	8
Library	Bezazian Branch	744-0019	1226	W	Ainslie St	Uptown	6
Library	Logan Square Branch	744-5295	3255	W	Altgeld St	Avondale	13
Library	Archer Branch	747-9241	5055	S	Archer Av	Archer Heights	8
Library	Brighton Park Branch	747-0666	4314	S	Archer Av	Brighton Park	9
Library	Garfield Ridge Branch	747-6094	6348	S	Archer Av	Garfield Ridge	10
Library	Portage-Cragin Branch	744-0152	5108	W	Belmont Av	Belmont Cragin	11
Library	John Merlo Branch	744-1139	644	W	Belmont Av	Lake View	9
Library	Uptown Branch	744-8400	929	W	Buena Av	Uptown	32
Library	Northtown Branch	744-2292	6435	N	California Av	West Ridge	8
Library	Marshall Square Branch	747-0061	2724	W	Cermak Rd	South Lawndale	8
Library	Eckhart Park Branch	746-6069	1371	W	Chicago Av	West Town	5
Library	Midwest Branch	744-7788	2335	W	Chicago Av	West Town	6
Library	Rogers Park Branch	744-0156	6907	N	Clark St	Rogers Park	25
Library	Damen Avenue Branch	744-6022	2056	N	Damen Av	Avondale	8
Library	Back of the Yards Branch	747-8367	4650	S	Damen Av	New City	12
Library	Edgebrook Branch	744-8313	5331	W	Devon Av	Forest Glen	6
Library	Near North Branch	744-0991	310	W	Division St	Near North Side	21
Library	Humbolt Park Branch		2718	W	Division St.		1
Library	Martin Luther King, Jr. B	747-7543	3436	S	Dr Martin Luther King	Douglas	8
Library	Whitney M. Young, Jr. Bra	747-0039	7901	S	Dr Martin Luther King	Chatham	17
Library	Edgewater Branch	744-0718	1210	W	Elmdale Av	Edgewater	8
Library	Vodak East Side Branch	747-5500	10542	S	Ewing Av	East Side	8
Library	Robert Taylor Branch	747-2828	5120	S	Federal St	Washington Park	5

**Appendix A-3 Chicago Public Library Sites
(continued)**

Chicago Public Library Sites

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Library	Lincoln Park Branch	744-1926	1150	W	Fullerton Av	Lincoln Park	48
Library	Galewood-Mont Clare Branc	746-5032	6969	W	Grand Av	Montclare	9
Library	Richard J. Daley Branch	747-8990	3400	S	Halsted St	Bridgeport	11
Library	Woodson Regional	747-6900	9525	S	Halsted St	Washington Heights	73
Library	South Chicago Branch	747-8065	9055	S	Houston Av	South Chicago	17
Library	Mabel Manning Branch	746-6800	6	S	Hoyne	Near West Side	41
Library	Walker Branch	747-1920	11071	S	Hoyne Av	Morgan Park	22
Library	Pullman Branch	747-2033	11001	S	Indiana Av	Roseland	15
Library	Independence Branch	744-0900	3548	W	Irving Park Rd	Irving Park	18
Library	Austin-Irving Branch	744-6222	6110	W	Irving Park Rd	Dunning	7
Library	Mount Greenwood Branch	747-2805	11010	S	Kedzie Av	Mount Greenwood	11
Library	Chicago Lawn Branch	747-0639	6120	S	Kedzie Av	Chicago Lawn	60
Library	Wrightwood-Ashburn Branch	747-2696	8530	S	Kedzie Av	Ashburn	18
Library	Albany Park Branch	744-1933	5150	N	Kimball Av	North Park	10
Library	Blackstone Branch	747-0511	4904	S	Lake Park Av	Kenwood	14
Library	Mayfair Branch	744-1254	4400	W	Lawrence Av	Irving Park	11
Library	Jefferson Park Branch	744-1998	5363	W	Lawrence Av	Portage Park	13
Library	Sulzer Regional	744-7616	4455	N	Lincoln Av	Lincoln Square	75
Library	Rudy Lozano Branch	746-4329	1805	S	Loomis St	Lower West Side	22
Library	Lincoln Belmont Branch	744-0166	1659	W	Melrose St	Lake View	8
Library	Hall Branch	747-2541	4801	S	Michigan Av	Grand Boulevard	16
Library	West Town Branch	744-1473	1271	N	Milwaukee	West Town	11
Library	West Belmont Branch	746-5142	3104	N	Narragansett Av	Belmont Cragin	5
Library	Kelly Branch	747-8418	6151	S	Normal Blvd	Englewood	23
Library	North Pulaski Branch	744-9573	4300	W	North Av	Humboldt Park	5
Library	North Austin Branch	746-4233	5724	W	North Av	Austin	19
Library	Roden Branch	744-1478	6083	N	Northwest Hwy	Norwood Park	10
Library	Oriole Park Branch	744-1965	5201	N	Oketo Av	Norwood Park	10
Library	Legler Branch	746-7730	115	S	Pulaski Rd	West Garfield Park	29
Library	Austin Branch	746-5038	5615	W	Race	Austin	9
Library	Sherman Park Branch	747-0477	5440	S	Racine Av	New City	8
Library	Thurgood Marshall Branch	747-5927	7506	S	Racine Av	Auburn Gresham	24
Library	Illinois Regional Library		1055	W	Roosevelt Rd	Near West Side	33
Library	Chicago Bee Branch	747-6872	3647	S	State St	Douglas	41
Library	Harold Washington Library	747-4999	400	S	State St	Loop	1,180
Library	Avalon Branch	747-5234	8828	S	Stony Island	Calumet Heights	13
Library	Roosevelt Branch	746-5656	1101	W	Taylor St	Near West Side	22

**Appendix A-3 Chicago Public Library Sites
(continued)**

Chicago Public Library Sites

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Library	Humboldt Branch	744-2244	1605	N	Troy St	Humboldt Park	27
Library	Chinatown Branch	747-8013	2353	S	Wentworth	Armour Square	10
						Total Lines	2,402

City Colleges of Chicago Sites

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
College	Olive-Harvey South Chicago	3055	E	92nd St.	South Chicago	
College	Wilbur Wright South	3400	N	Austin Ave.	Dunning	
College	Wilbur Wright Humboldt Park	1645	N	California	West Town	
College	Truman College Lakeview	3310	N	Clark	Lake View	
College	Administrative Offices	225	W	Jackson	Loop	
College	Harold Washington	30	E	Lake St	Loop	
College	Malcolm X Westside	4624	W	Madison	Austin	
College	Wilbur Wright North	4300	N	Narragansett Ave	Dunning	2
College	Richard J. Daley	7500	S	Pulaski Rd	Ashburn	3
College	Kennedy-King Dawson	3901	S	State St.	Grand Boulevard	
College	Malcolm X College	1900	W	Van Buren St	Near West Side	
College	Kennedy-King	6800	S	Wentworth Ave	Greater Grand Crossing	
College	Truman College	1145	W	Wilson Av	Uptown	5
College	Olive-Harvey	10001	S	Woodlawn Av	Pullman	3

CHICAGO HOUSING AUTHORITY ADMINISTRATIVE SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
CHA	CHA Trumbull	2437	E	106th Street		
CHA	Cha115th	833	W	115th Street		
CHA	901 E 131st Street	901	E	131st Street		
CHA	940 E 132nd Street	940	E	132nd Street		
CHA	977 E 132nd Street	977	E	132nd Street		
CHA	1410 W 14th St	1410	W	14th St	Near West Side	
CHA	CHA 35th	10	W	35th		
CHA	CHA Reside 500	500	E	37th St	Douglas	
CHA	CHA Reside Org	591	E	37th St	Douglas	
CHA	CHA Reside 500	500	E	37th Street		
CHA	CHA Reside Org	591	E	37th Street		
CHA	774 E 38th St	774	E	38th St	Oakland	
CHA	CHA Chapd Wells	776	E	38th Street (770)	Oakland	
CHA	CHA Wells Mgmt	454	E	39th Street	Oakland	
CHA	345 W 42nd Place	345	W	42nd Place	Oakland	
CHA	CHA Legal	200	W	Adams Street		
CHA	8109 S Ashland	8109	S	Ashland		
CHA	511 E Browning Av	511	E	Browning Av	Douglas	
CHA	1230 N Burling St	1230	N	Burling St	Near North Side	
CHA	2501 S California	2501	S	California		
CHA	6217 S Calumet	6217	S	Calumet		
CHA	54 W Cermak Rd	54	W	Cermak Rd	Near South Side	
CHA	CHA Fleet	230	E	Cermak Road		
CHA	CHA Washington	4440	S	Cottage Grove Avenue	Grand Boulevard	
CHA	CHA Lathrop	2000	W	Diversey Avenue		
CHA	CHA Cabrini 660	660	W	Division St	Near North Side	
CHA	3750 S Ellis Av	3750	S	Ellis Av	Oakland	
CHA	116 E Elm Street	116	E	Elm Street		
CHA	Robert Taylor	5210	S	Federal		
CHA	CHA Elevator	4630	S	Federal St	Grand Boulevard	
CHA	CHA Cen Maint	2325	S	Federal St	Armour Square	
CHA	CHA Taylor A1	4037	S	Federal St	Grand Boulevard	
CHA	CHA Taylor A2	4429	S	Federal St	Grand Boulevard	
CHA	CHA Chapd Tayl	4947	S	Federal St	Grand Boulevard	
CHA	CHA Taylor B2	5247	S	Federal St	Washington Park	
CHA	2960 S Federal Street	2960	S	Federal Street	Armour Square	
CHA	6029 S Harper Avenue	6029	S	Harper Avenue		
CHA	2567 N Hoyne	2567	N	Hoyne		
CHA	912 N Hudson Av	912	N	Hudson Av	Near North Side	
CHA	CHA Cabrini 900	900	N	Hudson Av	Near North Side	
CHA	Administrative Offices	626	W	Jackson	Near West Side	
CHA	2515 W Jackson Bl	2515	W	Jackson Bl	Near West Side	
CHA	1402 N Kedzie	1402	N	Kedzie		
CHA	3849 S King Drive	3849	S	King Drive		
CHA	3983 E Lake Park	3983	E	Lake Park		
CHA	1943 W Lake St	1943	W	Lake St	Near West Side	
CHA	CHA Leclair	4410	S	Laporte Street		

**Appendix A-5 Chicago Housing Authority Administrative Sites
(continued)**

CHICAGO HOUSING AUTHORITY ADMINISTRATIVE SITES

AGENCY	DEPARTMENT	STREET ADDRESS			NEIGHBORHOOD	LINES
CHA	CHA Abla B	1324	S	Loomis Street		
CHA	3175 S Luthunica	3175	S	Luthunica		
CHA	CHA Abla a	1000	S	Lytle Avenue		
CHA	1633 W Madison Street	1633	W	Madison Street		
CHA	2450 W Monroe St	2450	W	Monroe St	Near West Side	
CHA	No Router	2610	W	North Ave		
CHA	CHA Cabrini 418	418	W	Oak St	Near North Side	
CHA	419 W Oak St	419	W	Oak St	Near North Side	
CHA	CHA Prevent Pgm	35	S	Paulina Street		
CHA	2615 S Prairie Av	2615	S	Prairie Av	Douglas	
CHA	CHA Schip	3245	S	Prairie Street		
CHA	CHA Srhsg South	4250	S	Princeton Street		
CHA	CHA Srhsg North	2720	N	Sheffield Avenue		
CHA	9141 S South Chicago Ave	9141	S	South Chicago Ave		
CHA	Harold Ickes Homes	2420	S	State St		
CHA	Stateway Gardens	3618	S	State St		
CHA	Robert Taylor Homes	4110	S	State St		
CHA	Chacemak	4700	S	State St	Grand Boulevard	
CHA	2030 S State St	2030	S	State St	Near South Side	
CHA	CHA Ickes	2400	S	State St	Near South Side	
CHA	2710 S State St	2710	S	State St	Douglas	
CHA	CHA Stateway	3640	S	State St	Douglas	
CHA	4946 S State St	4946	S	State St	Grand Boulevard	
CHA	CHA Taylor B1	4950	S	State St	Grand Boulevard	
CHA	CHA Fic	916	S	Wabash Avenue		
CHA	CHA Fic	4859	S	Wabash Avenue		
CHA	1834 W Washington Bl	1834	W	Washington Bl	Near West Side	
CHA	1920 W Washington Bl	1920	W	Washington Bl	Near West Side	
CHA	CHA Step up	3250	S	Wentworth Av	Armour Square	
CHA	CHA Wentworth	3770	S	Wentworth Street		

TRANSIT AUTHORITY SITES

AGENCY	STATION	PHONE	STREET ADDRESS			ZIP
CTA	River Road Blue Line Station	708-692	5801	N	River Road	60018
CTA	Dempster Yellow Line Station	708-674	5001	W	Dempster Street	60077
CTA	Linden Purple Line Station	708-251	349		Linden Ave	60091
CTA	Desplaines Blue Line Station	312-454	711	S	Desplaines	60130
CTA	Harlem Green Line Station	708-366	1	S	Harlem Ave	60130
CTA	Harlem Blue Line Station	708-386	701	S	Harlem Ave	60130
CTA	Davis Purple Line Station	708-328	1612		Benson Ave	60201
CTA	Central Purple Line Station	708-432	1022		Central Ave	60201
CTA	Foster Purple Line Station	708-328	900		Foster Ave	60201
CTA	Noyes Purple Line Station	708-328	901		Noyes Ave	60201
CTA	Dempster Purple Line Station	708-328	1316		Sherman Ave	60201
CTA	Main Purple Line Station	708-328	836		Chicago Ave	60202
CTA	South Blvd. Purple Line Station	708-328	601		South Blvd	60202
CTA	Marion Green Line Station	708-366	1	S	Marion Street	60302
CTA	Ridgeland Green Line Station	708-366	36	S	Ridgeland Ave	60302
CTA	Austin Blue Line Station	708-386	1050	S	Austin Blvd	60304
CTA	Oak Park Green Line Station	708-366	100	S	Oak Park Ave	60304
CTA	Oak Park Blue Line Station	708-386	950	S	Oak Park Ave	60304
CTA	Clark & Lake Loop/Service Station	312-368	100	W	Lake Street	60601
CTA	Clark & LaSalle Blue Line Station	312-368	124	W	Lake Street	60601
CTA	Lake & Randolph Red Line Station	312-222	188	N	State Street	60601
CTA	State & Lake Loop/Service Station	312-368	200	N	State Street	60601
CTA	Randolph & Washington Blue Line Station	312-368	127	N	Dearborn Street	60602
CTA	Washington & Madison Blue Line Station	312-368	19	N	Dearborn Street	60602
CTA	Randolph & Washington Red Line Station	312-368	128	N	State Street	60602
CTA	Randolph & Wabash Loop/Service Station	312-368	151	N	Wabash AVE	60602
CTA	Madison & Wabash Loop/Service Station	312-368	2	N	Wabash Ave	60602
CTA	Monroe & Adams Blue Line Station	312-368	114	S	Dearborn Street	60603
CTA	Madison & Monroe. Blue Line Station	312-368	30	S	Dearborn Street	60603
CTA	Monroe & Adams Red Line Station	312-368	128	S	State Street	60603
CTA	Madison & Washington Red Line Station	312-368	20	S	State Street	60603
CTA	Madison & Monroe Red Line Station	312-368	26	S	State Street	60603
CTA	Adams & Wabash Loop/Service Station	312-922	201	S	Wabash Ave	60603
CTA	Jackson & Van Buren - North Blue Line Station	312-922	314	S	Dearborn	60604
CTA	Jackson & Van Buren - South Blue Line Station	312-922	328	S	Dearborn	60604
CTA	Adams & Jackson Blue Line Station	312-922	219	S	Dearborn Street	60604
CTA	Jackson & Adams Red Line Station	312-368	230	S	State Street	60604
CTA	Jackson & VanBuren Red Line Station	312-922	312	S	State Street	60604

**Appendix A-6 Transit Authority Sites
(continued)**

TRANSIT AUTHORITY SITES

AGENCY	STATION	PHONE	STREET ADDRESS			ZIP
CTA	LaSalle & Congress Blue Line Station	312-922	150	W	Congress	60605
CTA	Roosevelt Orange Line Station	312-922	22	E	Roosevelt Road	60605
CTA	Roosevelt Red Line Station	312-922	1167	S	State Street	60605
CTA	Congress & VanBuren Red Line Station	312-922	403	S	State Street	60605
CTA	Harrison Red Line Station	312-922	608	S	State Street	60605
CTA	LaSalle & VanBuren Loop/Service Station	312-922	121	W	VanBuren Street	60605
CTA	Clinton Green Line Station	312-421	540	W	Lake Street	60606
CTA	Madison & Wells Loop/Service Station	312-368	1	N	Wells Street	60606
CTA	Randolph & Wells Loop/Service Station	312-368	150	N	Wells Street	60606
CTA	Lake & Wells Blue Line Station	312-368	191	N	Wells Street	60606
CTA	Quincy & Wells Loop/Service Station	312-368	220	S	Wells Street	60606
CTA	Clinton & Congress Blue Line Station	312-922	428	S	Clinton	60607
CTA	Halsted Blue Line Station	312-454	430	S	Halsted Street	60607
CTA	Halsted Green Line Station	312-421	800	W	Lake Street	60607
CTA	Peoria Blue Line Station	312-421	430	S	Peoria	60607
CTA	WASHINGTON / RACINE	312-633	120	N	Racine Ave	60607
CTA	Racine Blue Line Station	312-421	430	S	Racine Ave	60607
CTA	18th Street Blue Line Station	312-421	1710	W	18th Street	60608
CTA	Ashland Orange Line Station	312-247	3011	S	Ashland Ave	60608
CTA	California Blue Line Station	312-247	2011	S	California Ave	60608
CTA	Hoyne Blue Line Station	312-421	2009	S	Hoyne Ave	60608
CTA	Western Blue Line Station	312-247	2009	S	Western Ave	60608
CTA	47th Street Red Line Station	312-624	220	W	47th Street	60609
CTA	Garfield Red Line Station	312-624	220	W	Garfield Blvd	60609
CTA	Western Orange Line Station	312-776	4901	S	Western Ave	60609
CTA	Chicago Brown Line Station	312-222	300	W	Chicago Ave	60610
CTA	Clark & Division Red Line Station	312-337	1200	N	Clark Street	60610
CTA	Grand & Milwaukee Blue Line Station	312-421	502	N	Milwaukee Ave	60610
CTA	Sedgewick Brown Line Station	312-337	1536	N	Sedgewick Ave	60610
CTA	Grand & State Red Line Station	312-222	521	N	State Street	60610
CTA	Chicago & State Red Line Station	312-337	800	N	State Street	60610
CTA	Medical Center Blue Line Station	312-421	431	S	Damen Ave	60612
CTA	Kedzie Blue Line Station	312-533	530	S	Kedzie Ave	60612
CTA	Ashland Green Line Station	312-421	1601	W	Lake Street	60612
CTA	California Green Line Station	312-421	2800	W	Lake Street	60612
CTA	Polk Blue Line Station	312-421	1713	W	Polk Street	60612
CTA	Western Blue Line Station	312-421	430	S	Western Ave	60612
CTA	Addison Brown Line Station	312-327	1818	W	Addison Street	60613

**Appendix A-6 Transit Authority Sites
(continued)**

TRANSIT AUTHORITY SITES

AGENCY	STATION	PHONE	STREET ADDRESS			ZIP
CTA	Addison Red Line Station	312-327	940	W	Addison Street	60613
CTA	Irving Park Brown Line Station	312-327	1816	W	Irving Park	60613
CTA	Irving Park Blue Line Station	312-685	4131	W	Irving Park	60613
CTA	Montrose Brown Line Station	312-334	1814	W	Montrose Ave	60613
CTA	Sheridan Red Line Station	312-327	3940	N	Sheridan Rd	60613
CTA	Armitage Brown Line Station	312-327	944	W	Armitage Ave	60614
CTA	Fullerton Brown Line Station	312-327	943	W	Fullerton Ave	60614
CTA	Fullerton Red Line Station	312-327	945	W	Fullerton Ave	60614
CTA	51st Street Green Line Station	312-624	319	E	51st Street	60615
CTA	Sox-35th. - 33rd Street Entrance Red Line Station	312-224	143	W	33rd Street	60616
CTA	Sox-35th. - 35th Street Entrance Red Line Station	312-624	142	W	35th Street	60616
CTA	35th Street. Green Line Station	312-327	16	E	35th Street	60616
CTA	Cermak Red Line Station	312-225	138	W	Cermak Road	60616
CTA	Halsted Orange Line Station	312-225	2420	S	Halsted Street	60616
CTA	103rd Street Bus Garage	312-978	1702	E	103rd Street	60617
CTA	Addison Blue Line Station	312-478	3622	W	Addison Ave	60618
CTA	Belmont Blue Line Station	312-478	3355	W	Belmont Ave	60618
CTA	79th Street Red Line Station	312-783	15	W	79th Street	60620
CTA	77th Street Bus Garage	312-874	210	W	79th Street	60620
CTA	87th Street. Red Line Station	312-783	15	W	87th Street	60620
CTA	95th Street. Red Line Station	312-783	14	W	95th Street	60620
CTA	63rd Street Red Line Station	312-783	220	W	63rd Street	60621
CTA	Harvard Green Line Station	312-241	303	W	63rd Street	60621
CTA	69th Street Red Line Station	312-783	15	W	69th Street	60621
CTA	Halsted Green Line Station	312-783	6321	S	Halsted Street	60621
CTA	Wentworth Green Line Station	312-241	5913	S	Wentworth Ave	60621
CTA	North & Clybourn Ave. Red Line Station	312-337	1559	N	Clybourn Ave	60622
CTA	Damen Blue Line Station	312-486	1588	N	Damen Ave	60622
CTA	Division & Milwaukee Blue Line Station	312-486	1200	N	Milwaukee Ave	60622
CTA	Chicago & Milwaukee Blue Line Station	312-421	800	N	Milwaukee Ave	60622
CTA	Central Park Blue Line Station	312-762	1915	S	Central Park	60623
CTA	Kedzie Blue Line Station	312-762	1944	S	Kedzie Ave	60623
CTA	Kildare Blue Line Station	312-762	2020	S	Kildare Ave	60623
CTA	Pulaski Blue Line Station	312-762	2005	S	Pulaski Rd	60623
CTA	Kedzie Bus Garage	312-826	358	S	Kedzie	60624
CTA	Kedzie Green Line Station	312-533	3200	W	Lake Street	60624
CTA	Homan Green Line Station	312-533	3400	W	Lake Street	60624

**Appendix A-6 Transit Authority Sites
(continued)**

TRANSIT AUTHORITY SITES

AGENCY	STATION	PHONE	STREET ADDRESS			ZIP
CTA	Pulaski Green Line Station	312-533	4000	W	Lake Street	60624
CTA	Pulaski Blue Line Station	312-533	530	S	Pulaski Rd	60624
CTA	Chicago Avenue Bus Garage	312-265	642	N	Pulaski Road	60624
CTA	Damen Brown Line Station	312-334	4645	N	Damen Ave	60625
CTA	Francisco Brown Line Station	312-478	4648	N	Francisco Ave	60625
CTA	Kedzie Brown Line Station	312-478	4648	N	Kedzie Ave	60625
CTA	Kimball Brown Line Station	312-478	4755	N	Kimball Ave	60625
CTA	Kimball Brown Line Station	312-478	3365	W	Lawrence Ave	60625
CTA	Rockwell Brown Line Station	312-478	4648	N	Rockwell Street	60625
CTA	Western Brown Line Station	312-334	4645	N	Western Ave	60625
CTA	Jarvis Red Line Station	312-761	1523	W	Jarvis Street	60626
CTA	Loyola Red Line Station	312-761	1200	W	Loyola Ave	60626
CTA	Morse Red Line Station	312-761	1358	W	Morse Ave	60626
CTA	Howard Purple Line Station	708-328	1649	W	Howard Street	60629
CTA	Howard Yellow/Red Line Station	312-761	1649	W	Howard Street	60629
CTA	Jefferson Park Blue Line Station	312-685	4917	N	Milwaukee Ave	60630
CTA	Cumberland Blue Line Station	708-692	5800	N	Cumberland Ave	60631
CTA	35th / Archer Orange Line Station	312-247	3528	S	Archer Ave	60632
CTA	Kedzie Orange Line Station	312-776	4900	S	Kedzie Ave	60632
CTA	Archer Bus Garage	312-847	2600		Pershing Road	60632
CTA	Pulaski Orange Line Station	312-284	5106	S	Pulaski Road	60632
CTA	74th & Wood Bus Garage	312-925	1845	W	74th Street	60636
CTA	Ashland Green Line Station	312-776	6315	S	Ashland Ave	60636
CTA	Racine Green Line Station	312-776	6314	S	Racine Ave	60636
CTA	58th Street Green Line Station	312-241	320-24	E	58th Street	60637
CTA	61st. Street Green Line Station	312-241	316	E	61st Street	60637
CTA	University Green Line Station	312-241	1200	E	63rd Street	60637
CTA	King Drive Green Line Station	312-241	400	E	63rd Street	60637
CTA	Cottage Grove Green Line Station	312-241	800	E	63rd Street	60637
CTA	55th Street Green Line Station	312-241	319	E	Garfield Blvd	60637
CTA	Midway Orange Line Station	312-284	4612	W	59th Street	60638
CTA	Argyle Red Line Station	312-334	1118	W	Argyle Street	60640
CTA	Berwyn Red Line Station	312-334	1121	W	Berwyn Ave	60640
CTA	Wilson Red Line Station	312-334	4620	N	Broadway	60640
CTA	Lawrence Red Line Station	312-334	1117	W	Lawrence Ave	60640
CTA	Montrose Blue Line Station	312-685	4600	W	Montrose Ave	60641
CTA	Pulaski Blue Line Station	312-685	3900	N	Pulaski Ave	60641
CTA	Austin Green Line Station	312-287	351	N	Austin Blvd	60644

**Appendix A-6 Transit Authority Sites
(continued)**

TRANSIT AUTHORITY SITES

AGENCY	STATION	PHONE	STREET ADDRESS			ZIP
CTA	Central Green Line Station	312-287	350	N	Central Ave	60644
CTA	Cicero Blue Line Station	312-287	720	S	Cicero Ave	60644
CTA	Cicero Green Line Station	312-287	4800	W	Lake Street	60644
CTA	Laramie Green Line Station	312-287	5148	W	Lake Street	60644
CTA	Forest Glen Bus Garage	312-774	5419	W	Armstrong Avenue	60646
CTA	California Blue Line Station	312-486	2211	N	California Ave	60647
CTA	Logan Square/Diversey Station	312-486	2620	N	Kedzie Ave	60647
CTA	Western Blue Line Station	312-486	1909	N	Western Ave	60647
CTA	Cicero Blue Line Station	708-656	2133	S	48th Ave	60650
CTA	Cicero / Berwyn Blue Line Station	708-656	2134	S	54th Ave	60650
CTA	Laramie Blue Line Station	708-656	2130	S	Laramie	60650
CTA	43rd Street. Green Line Station	312-624	314	E	43rd Street	60653
CTA	47th Street Green Line Station	312-624	314	E	47th Street	60653
CTA	Indiana Green Line Station	312-624	4003	S	Indiana Ave	60653
CTA	MERCHANDISE MART	312-664	222	W	Bank Drive	60654
CTA	APPAREL CENTER	312-664	350	N	Orleans	60654
CTA	Merchandise Mart Brown Line Station	312-222	222	W	Merchandise Mart	60654
CTA	Harlem Blue Line Station	312-685	5550	N	Harlem Ave	60656
CTA	Belmont Red Line Station	312-327	945	W	Belmont Ave	60657
CTA	Belmont Brown Line Station	312-327	945	W	Belmont Ave	60657
CTA	Diversey Brown Line Station	312-327	940	W	Diversey Ave	60657
CTA	Paulina Brown Line Station	312-327	3411	N	Paulina Street	60657
CTA	Southport Brown Line Station	312-327	3411	N	Southport Ave	60657
CTA	Wellington Brown Line Station	312-327	945	W	Wellington Ave	60657
CTA	North Park Bus Garage	312-539	3112	W	Foster Avenue	60659
CTA	Bryn Mawr Red Line Station	312-334	1119	W	Bryn Mawr Ave	60660
CTA	Granville Red Line Station	312-761	1119	W	Granville Ave	60660
CTA	Thorndale Red Line Station	312-334	1118	W	Thorndale Ave	60660
CTA	O'Hare Blue Line Station	312-686	11601	W	Touhy Ave	60666

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	North Shore Beach	742-7857	Pratt		& Lake Michigan		
Park	Beverly Park	747-6024	2460	W	102nd	Beverly	2
Park	Graver Park	747-6163	1518	W	102nd Pl	Beverly	
Park	Gately Park	747-6155	810	E	103rd St.	Pullman	1
Park	Trumbull Park	747-6759	2400	E	105th St	South Deering	12
Park	Munroe Park	747-6561	2617	W	105th St.	Beverly	2
Park	Wolfe Playground Park	747-7005	3325	E	108th St.	East Side	3
Park	Palmer Park	747-6576	200	E	111th St	Roseland	2
Park	Mount Greenwood Park	747-6564	3724	W	111th St	Mount Greenwood	2
Park	Cooper Park	747-6096	1323	W	117th St.	West Pullman	
Park	White Park	747-7106	1120	W	122nd St.	West Pullman	
Park	West Pullman Park	747-7090	400	W	123rd St	West Pullman	
Park	Mann Park	747-6457	3035	E	130th St	Hegewisch	3
Park	Carver Park	747-6047	939	E	132nd St	Riverdale	4
Park	Addams/medill Park	746-5487	1301	W	14th St.	Near West Side	3
Park	Shedd Park	747-7685	3660	W	23rd	South Lawndale	2
Park	Madero Park	747-3001	3203	W	28th St.	South Lawndale	1
Park	Piotrowski Park	747-6608	4200	W	31st St	South Lawndale	5
Park	Wilson Playground Park	747-7002	1122	W	34th Pl.	Bridgeport	3
Park	Ellis/donoghue School Park	747-0231	707	E	37th St.	Oakland	2
Park	Kelly Park	747-6197	2725	W	41st	Brighton Park	3
Park	Le Claire Courts - Hearst Community	747-6438	5116	W	44th St	Garfield Ridge	1
Park	Fuller Park	747-6144	331	W	45th St	Fuller Park	20
Park	Taylor Park	747-6728	41	W	47th St	Grand Boulevard	1
Park	Oakley Playground Park	747-6570	2251	W	50th Pl.	Gage Park	1
Park	Kenwood Community Park	747-6285	1330	E	50th St	Kenwood	1
Park	Cornell Square Park	747-6097	1809	W	50th St	New City	2
Park	Vittum Park	747-6815	5010	W	50th St.	Garfield Ridge	2
Park	Dyett Recreation Center	747-6118	513	E	51st St.	Grand Boulevard	1
Park	Sherman Park	747-6672	1307	W	52nd St	New City	6
Park	Normandy Playground Park	747-6568	6660	W	52nd St.	Garfield Ridge	1
Park	Strohacker Park	747-6723	4347	W	54th St.	West Elsdon	2
Park	Gage Park	747-6147	2415	W	55th St	Gage Park	10
Park	Washington Park Refectory	747-7613	450	E	55th St.	Washington Park	5
Park	Valley Forge Park	747-6810	7001	W	59th St.	Garfield Ridge	1
Park	Sumner School Park (No. 470)	746-5394	4320	W	5th Ave.	North Lawndale	
Park	Washington Park		448	E	61st St		1
Park	Hale Park	747-6168	6258	W	62nd	Clearing	1
Park	Lawler Park	747-6435	5210	W	64th St.	Clearing	3

**Appendix A-7 Chicago Park District Sites
(continued)**

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	West Lawn Park	747-7032	4233	W	65th St	West Lawn	17
Park	Tarkington Park	747-6727	3344	W	71st	Chicago Lawn	4
Park	Don Nash Community Center	747-1832	1833	E	71st St.	South Shore	6
Park	Hamilton Park	747-6174	513	W	72nd St	Englewood	22
Park	Murray Playground Park	747-6562	1743	W	73rd St.	West Englewood	2
Park	Rainbow Park and Beach	745-2210	3111	E	77th		2
Park	Bogan Park	747-6025	3939	W	79th	Ashburn	2
Park	Rainey Park	747-6630	4350	W	79th St	Ashburn	1
Park	Scottsdale Playground Park	747-6668	4637	W	83rd Pl.	Ashburn	2
Park	Avalon Park	747-6015	1215	E	83rd St	Avalon Park	4
Park	Russell Square Park	747-6651	3045	E	83rd St	South Chicago	
Park	Hayes Park	747-6177	2936	W	85th St	Ashburn	2
Park	Nat King Cole Park	747-6063	361	E	85th St.	Chatham	1
Park	Marshfield Playground Park	747-6475	1637	W	87th St.	Auburn Gresham	1
Park	Owens Park	747-6709	2032	E	88th St.		
Park	Tuley Park	747-6763	501	E	90th Pl	Chatham	15
Park	Brainerd Park	747-6027	1246	W	92nd St	Washington Heights	1
Park	Wallace Playground Park	747-6819	607	W	92nd St.	Washington Heights	1
Park	Abbott Park	747-6001	49	E	95th St.	Roseland	5
Park	Oakdale Park	747-6569	965	W	95th St.	Washington Heights	3
Park	Veteran's Memorial Playground Park	747-6812	2820	E	98th St.	South Deering	3
Park	Sheridan Park	746-5369	910	S	Aberdeen St	Near West Side	5
Park	Ada Park	747-6002	11250	S	Ada St.	Morgan Park	4
Park	Skinner Park	746-5560	1331	W	Adams St.	Near West Side	17
Park	Moore Playground Park	746-5352	5085	W	Adams St.	Austin	1
Park	Shabbona Park	742-7608	6935	W	Addison	Dunning	4
Park	Athletic Field Park	742-7597	3546	W	Addison St.	Avondale	1
City	Brighter Park		4308	S	Archer		1
Park	Curie Park	747-6098	4949	S	Archer	Archer Heights	2
Park	Peterson Park	742-7584	3700	W	Ardmore Ave.		3
Park	Chase Park	742-7518	4725	N	Ashland Av	Uptown	3
Park	Kiwanis Playground Park	742-7884	7631	N	Ashland Ave.	Rogers Park	2
Park	Augusta Playground Park	742-7544	4433	W	Augusta Blvd.	Humboldt Park	2
Park	Pietrowski Playground Park	747-6607	9650	S	Ave. M	East Side	1
Park	Calumet Park	747-6039	9801	S	Avenue G	East Side	7
Park	Rowan Park	747-6650	11546	S	Avenue L	East Side	6
Park	Kosciuszko Park	742-7546	2732	N	Avers Av	Avondale	4

**Appendix A-7 Chicago Park District Sites
(continued)**

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	Mozart Park	742-7535	2036	N	Avers St.	Avondale	1
Park	Olympia Park	742-7851	6566	N	Avondale Ave.	Edison Park	2
Park	Sayre Park	746-5368	6871	W	Belden Ave.	Montclare	
Park	No 386 Playlot Park	747-6135	8385	S	Birkhoff	Auburn Gresham	
Park	Pulaski Park	742-7559	1419	W	Blackhawk St.	West Town	8
Park	Amundsen Park	746-5003	6200	W	Bloomington Av	Austin	1
Park	Galewood Playground Park	746-5089	5729	W	Bloomington Ave.	Austin	1
Park	Bosley Playground Park	747-6026	3044	S	Bonfield St.	Bridgeport	1
Park	Broadway Armory Park	742-7502	5917	N	Broadway	Edgewater	8
Park	Pierce School Park	742-7525	1423	W	Bryn Mawr	Edgewater	1
Park	Oz Park (No. 276)	742-7898	2021	N	Burling St	Lincoln Park	3
Park	Mcfetridge Sports Center	742-7585	3843	N	California Ave.	Irving Park	5
Park	Lincoln Park Zoo		2150	N	Cannon Dr		148
Park	Waveland Park (Clock Tower)	742-7755	2200	N	Canon Dr.	Lincoln Park	258
Park	Columbus Park	746-5046	500	S	Central Av	Austin	14
Park	Minuteman Park	747-6559	5940	S	Central Ave.	Clearing	1
Park	Garfield Park Conservatory	746-5100	300	N	Central Park Blvd.	Austin	1
Park	Garfield Park	746-5092	100	N	Central Park Dr	Austin	53
Park	Barrett Playground Park	747-6016	2022	W	Cermak Rd.	Lower West Side	1
Park	Eckhart Park	746-5490	1330	W	Chicago Av	West Town	9
Park	Clarendon Community Center	742-7512	4501	N	Clarendon Av	Uptown	3
Park	Lincoln Park Zoo		2001	N	Clark		95
Park	Trebes Park	742-7769	2250	N	Clifton Ave.	Lincoln Park	1
Park	Salt		900	S	Columbus Dr.		16
Park	Dvorak Park	746-5083	1119	W	Cullerton St	Lower West Side	9
Park	Wicker Park	742-7553	1425	N	Damen Ave.	West Town	2
Park	Lindblom Park	747-6443	6054	S	Damen Ave.	West Englewood	1
Park	Dawes Park	747-6108	8040	S	Damen Ave.	Auburn Gresham	1
Park	Williams Park	747-7554	2710	S	Dearborn St.	Douglas	1
Park	Clemente Park	742-7538	2334	W	Division St.	West Town	3
Park	Simons Park	742-7548	1640	N	Drake Av	Humboldt Park	5
Park	Woodhull Playground Park	747-7006	7340	S	East End Ave.	South Shore	2
Park	Robichaux Park	747-6648	9247	S	Eggleston Av	Washington Heights	2
Park	Seward Park	742-7895	375	W	Elm St	Near North Side	12
Park	Brands Park	742-7582	3285	N	Elston Av	Avondale	1
Park	Rosenblum/mann School Park	747-6459	7547	S	Euclid Ave.		
Park	Jackson (Natatorium) Park	747-5289	3506	W	Fillmore Ave.	North Lawndale	1

**Appendix A-7 Chicago Park District Sites
(continued)**

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	Hiawatha Park	746-5559	8029	W	Forest Preserve Dr.	Dunning	2
Park	Gompers Park	742-7628	4222	W	Foster Av	North Park	4
Park	River Park	742-7516	5100	N	Francisco Av	Lincoln Square	5
Park	Lincoln Park		959	W	Fullerton Av		2
Park	Riis Park	746-5363	6100	W	Fullerton Av	Belmont Cragin	12
Park	Smith (Joseph Higgins) Park	742-7534	2526	W	Grand Av	West Town	7
Park	Emmerson Playground Park	742-7877	1830	W	Granville Ave.	West Ridge	2
Park	Luna Playlot Park (No. 440)	747-6672	5558	S	Green St.	Englewood	
Park	Loyola Park	742-7857	1230	W	Greenleaf Ave.	Rogers Park	4
Park	Wrightwood Playground Park	742-7816	2534	N	Greenview Ave.	Lincoln Park	1
Park	Hoyne Playground Park	747-6184	3417	S	Hamilton Ave.	East Garfield Park	2
Park	Brooks Park	742-7855	7046	N	Harlem Av	Edison Park	2
Park	Wildwood Park	742-7856	6950	N	Hiawatha	Forest Glen	2
Park	Kedvale Playground Park	742-7543	4134	W	Hirsch St.	Humboldt Park	2
Park	O'hallaren Park	747-6573	8335	S	Honore St.	Auburn Gresham	1
Park	Hamlin Park	742-7785	3035	N	Hoyne Av	North Center	4
Park	Humboldt Park	742-7549	1400	N	Humbolt Dr	West Town	1
Park	Grand Crossing Park	747-6158	7655	S	Ingleside Av	Greater Grand Crossing	2
Park	Revere Park	742-7594	2509	W	Irving Park Rd	North Center	3
Park	Merrimac Park	742-7626	6343	W	Irving Park Rd	Dunning	2
Park	Clark Playground Park	746-5043	4615	W	Jackson Blvd.	Austin	1
Park	Columbus Refectory	746-5574	5701	W	Jackson Blvd.	Austin	8
Park	Marquette Park	747-6469	6734	S	Kedzie Av	Chicago Lawn	4
Park	Ken-well Playground Park	742-7627	2945	N	Kenosha Ave.	Hermosa	2
Park	Kilbourn Park	742-7624	3501	N	Kilbourn Av	Irving Park	11
Park	Archer Park	747-6009	4901	S	Kilbourn Av	Archer Heights	2
Park	Hermosa Park	742-7540	2240	N	Kilbourn Ave.	Hermosa	2
Park	Levin Park	746-5335	5458	W	Kinzie Pkwy.	Austin	2
Park	Franklin Park	747-7676	1449	S	Kolin Av	North Lawndale	5
Park	Durkin Park	747-6115	8441	S	Kolin Av	Ashburn	1
Park	Pasteur Park	747-6595	5825	S	Kostner	West Elsdon	1
Park	Sauganash Park	742-7618	5861	N	Kostner Av	Forest Glen	1
Park	Tilton Playground Park	746-5399	305	N	Kostner Ave.	West Garfield Park	1
Park	Kennicott Park	747-7138	4434	S	Lake Park Av	Kenwood	32
Park	Lake Shore Park	742-7891	808	N	Lake Shore Dr.	Near North Side	5
Park	Austin Town Hall	746-5006	5610	W	Lake St	Austin	8
Park	La Follette Park	746-5316	1333	N	Laramie Av	Austin	9

**Appendix A-7 Chicago Park District Sites
(continued)**

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	Blackhawk Park	746-5014	2318	N	Lavergne Av	Belmont Cragin	9
Park	Jensen Playground Park	742-7580	4600	N	Lawndale Ave.	Albany Park	1
Park	Gross Playground Park	742-7528	2708	W	Lawrence Ave.	Lincoln Square	1
Park	Lincoln Park Cultural Center	742-7726	2045	N	Lincoln Park West	Lincoln Park	167
Park	Donovan Playground Park	747-6111	3620	S	Lituanica Ave.	Bridgeport	1
Park	Cragin Playground Park	746-5065	2611	N	Lockwood Ave.	Belmont Cragin	2
Park	Chopin Park	742-7606	3420	N	Long Av	Portage Park	1
Park	Portage Park	742-7634	4100	N	Long Av	Portage Park	15
Park	Jefferson Park	742-7609	4822	N	Long Av	Jefferson Park	8
Park	Ridge Park	747-6639	9625	S	Longwood Dr	Beverly	14
Park	Foster Park	747-6135	8400	S	Loomis Bl	Auburn Gresham	
Park	Young Park	746-5477	210	S	Loomis St.	Near West Side	3
Park	Lowe Playground Park	747-6445	5203	S	Lowe Ave.	New City	1
Park	Indian Boundary Park	742-7887	2500	W	Lunt Av	West Ridge	2
Park	Paschen Playground Park	742-7865	1932	W	Lunt Ave.	Rogers Park	1
Park	Essanay Playlot Park (No. 487)	742-7802	4437	N	Magnolia Ave.	Uptown	
Park	Margate Park	742-7522	4921	N	Marine Dr.	Uptown	2
Park	Davis Square Park	747-6107	4430	S	Marshfield Av	New City	2
Park	Washington Park	747-6823	5531	S	Martin Luther King Dr.	Washington Park	14
Park	Meyering Playground Park	747-6545	7140	S	Martin Luther King Dr.	Greater Grand Crossing	2
Park	Indian Road Playground Park	742-7850	6010	W	Matson Ave.	Norwood Park	2
Park	Burnham Park		425	E	Mcfetridge Dr	Near South Side	984
Park	Dunham Park	742-7603	4640	N	Melvina Av	Portage Park	1
Park	Gladstone Park	742-7853	5421	N	Menard Ave.	Jefferson Park	2
Park	Wilson, Frank J. Park	742-7616	4630	N	Milwaukee Av	Portage Park	1
Park	Wentworth Park	747-6993	5625	S	Mobile Av	Garfield Ridge	6
Park	Touhy-herbert Park	746-5562	2107	W	Monroe St	Near West Side	
Park	Horner Park	742-7572	2741	W	Montrose Ave.	Irving Park	11
Park	Mt. Vernon Park	747-6566	10540	S	Morgan St.	Washington Heights	4
Park	Bessemer Park	747-6023	8930	S	Muskegon Av	South Chicago	21
Park	Norwood Park	742-7844	5801	N	Natoma Av	Norwood Park	8
Park	Edison Park	742-7845	6755	N	Northwest Hwy.	Edison Park	2
Park	Bell Park	746-5008	3020	N	Oak Park Av	Montclare	1
Park	Holstein Park	742-7554	2200	N	Oakley	Avondale	5
Park	Oriole Park	742-7852	5430	N	Olcott Av	Norwood Park	1
Park	Euclid Park	747-6124	9800	S	Parnell Ave.	Washington Heights	1
Park	Touhy Park	742-7870	7348	N	Paulina St.	Rogers Park	1

**Appendix A-7 Chicago Park District Sites
(continued)**

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	Mckinley Park	747-6527	2210	W	Pershing Rd	New City	15
Park	Green Briar Park	742-7886	2650	W	Peterson Av	West Ridge	6
Park	Mcguane Park	747-6497	2901	S	Poplar Av	Bridgeport	7
Park	Anderson Park	747-6007	3748	S	Prairie Av	Douglas	1
Park	West Chatham Park	747-6998	8223	S	Princeton Ave.	Chatham	1
Park	Smith Playground Park	747-6689	9912	S	Princeton Ave.	Roseland	3
Park	Orr School Park	746-5354	730	N	Pulaski Rd.	Humboldt Park	1
Park	Ogden Park	747-6572	6500	S	Racine Av	West Englewood	6
Park	Wilson Community Center	747-7001	3225	S	Racine Ave.	Bridgeport	1
Park	Moran Playground Park	747-6560	5727	S	Racine Ave.	West Englewood	1
Park	Grant Park	742-7648	331	E	Randolph St	Loop	1
Park	Lake Meadows Park	747-6287	3113	S	Rhodes Av	Douglas	1
Park	Madden Park	747-6446	3800	S	Rhodes Av	Douglas	4
Park	Commercial Club Playground	742-7558	1845	W	Rice St	West Town	
Park	Mather Park	742-7501	5941	N	Richmond St.	West Ridge	1
Park	Eugene Field Park	742-7591	5100	N	Ridgeway	Albany Park	2
Park	Pottawattomie Park	742-7878	7340	N	Rogers Av	Rogers Park	10
Park	Taylor-lauridsen Playground Park	747-6729	647	W	Root St.	New City	3
Park	Rosedale Park	742-7843	6312	W	Rosedale Av	Norwood Park	1
Park	Douglas Park	747-7670	1401	S	Sacramento	North Lawndale	8
Park	Chippewa Park	742-7867	6758	N	Sacramento Ave.	West Ridge	1
Park	Mckiernan Playground Park	747-2883	10714	S	Sawyer Ave.	Mount Greenwood	1
Park	Avondale Park	742-7581	3516	W	School St	Avondale	2
Park	Schreiber Playground Park	742-7876	1552	W	Schreiber Ave.	Rogers Park	2
Park	Stanton Park	742-7896	618	W	Scott St.	Near North Side	2
Park	Adams Playground Park	742-7787	1919	N	Seminary Ave.	Lincoln Park	1
Park	Berger Park	742-7871	6205	N	Sheridan	Edgewater	3
Park	Gill Park	742-7802	833	W	Sheridan Rd	Lake View	3
Park	Armour Square Park	747-6012	3309	S	Shields Av	Armour Square	9
Park	Sherwood Park	747-6688	5701	S	Shields Ave.	Englewood	1
Park	South Shore Cultural Center	747-2536	7059	S	South Shore Dr	South Shore	82
Park	Promontory Point	747-6620	5491	S	South Shore Dr.	Hyde Park	4
Park	Sheil Community Center	742-7826	3505	N	Southport Av	Lake View	1
Park	Independence Park	742-7590	3945	N	Springfield Av	Irving Park	5
Park	Beifuss (Natatorium) Park	742-7539	1725	N	Springfield Ave.	Humboldt Park	
Park	Senka Park	747-7632	5656	S	St. Louis Ave.	Gage Park	1
Park	Stateway Park	747-6707	3658	S	State St.	Douglas	2

**Appendix A-7 Chicago Park District Sites
(continued)**

CHICAGO PARK DISTRICT SITES

AGENCY	DEPARTMENT	PHONE	STREET ADDRESS			NEIGHBORHOOD	LINES
Park	Lincoln Park Conservatory	742-7737	2400	N	Stockton Dr.	Lincoln Park	1
Park	Jackson Park	747-6187	6401	S	Stony Island Av	Woodlawn	6
Park	Mayfair Park	742-7610	4550	W	Sunnyside Av	Irving Park	2
Park	Welles Park	742-7511	2333	W	Sunnyside Ave.	Lincoln Square	7
Park	Montgomery Playground Park	747-6469	6600	S	Talman Ave.	Chicago Lawn	
Park	Hollywood Park	742-7578	3312	W	Thorndale Ave.	North Park	1
Park	Fosco Playground Park	746-5086	1313	S	Throop St.	Near West Side	1
Park	Throop Playground Park	747-6740	4922	S	Throop St.	New City	2
Park	Leone Beach Park	742-7864	1222	W	Touhy Av	Rogers Park	1
Park	Buckeye Playlot Park	742-7879	4900	N	Troy St.	Albany Park	
Park	Fernwood Park	747-6132	10436	S	Wallace St	Roseland	1
Park	Union Park	746-5494	1500	W	Washington Bl	Near West Side	
Park	Haas Playground Park	742-7552	2440	N	Washtenaw Ave.	Avondale	1
Park	Altgeld Park	746-5001	515	S	Washtenaw Ave.	East Garfield Park	4
Park	Rogers Park	742-7859	7345	N	Washtenaw Ave.	West Ridge	1
Park	Wentworth Gardens Park	747-6996	3770	S	Wentworth Ave.	Armour Square	1
Park	Kennedy Park	747-6198	11320	S	Western Av	Morgan Park	1
Park	Warren Park	742-7888	6601	N	Western Ave.	West Ridge	21
Park	Harrison Park	746-5491	1824	S	Wood St	Lower West Side	11
Park	Hermitage Park	747-6179	5839	S	Wood St.	West Englewood	1
Park	Kelvyn Park	742-7547	4438	W	Wrightwood Av	Hermosa	5
Park	Bradley Park	747-6022	9729	S	Yates	South Deering	69

MODEL NON-GOVERNMENT SITES

AGENCY	STREET ADDRESS			ZIP	CURRENT SERVICE
El Valor	1850	w	21st Street	60608	DSL Service connects (2) locations
Metropolitan Planning Council	25	E	Washington Street	60602	ISDN Service w/LAN serving (20) computers
Centers for New Horizens, Inc.	4150	S	King Drive	60653	(140) computers in (17) locations connected to a T1 at this address
Renacer Westside Community	2040	W	Jackson Blvd.	60612	(8) computers w/ dial-up service - expanding to (25) computers
Chicago Commons-Emerson House	645	N	Wood Street	60622	T1 WAN to (3) locations, 645 N. Wood; 51st St. & Ada; and 125 N. Hoyne
Information Technology Resource	6	N	Michigan, Suite 1405	60602	Information Technology Resource Center

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Young Women's Christian Association of Metropolitan Chicago	(312) 372-6600	180	N	Wabash	60601
National Louis University	(312) 621-9650	18	S	Michigan	60603
Metropolitan Family Services	(312) 986-4000	14	E	Jackson	60604
Scholarship and Guidance Association	(312) 663-0305	53	W	Jackson	60604
Community Emergency Shelter Organization	(312) 913-2040	1313	S	Wabash	60605
Jewish Vocational Service and Employment Center	(312) 346-6700	1	S	Franklin	60606
Human Resources Development Institute, Inc.	441-9009	222	S	Jefferson	60606
Chicago Christian Industrial League	(312) 421-0588	123	S	Green	60607
Chase House	(312) 948-0014	815	W	Van Buren	60607
McDermott Center	(312) 226-7984	932	W	Washington	60607
Ada S. McKinley Community Services, Inc.	(312) 554-0600	725	S	Wells	60607
Mujeres Latinas En Accion	(312) 226-1544	1823	W	17th	60608
El Valor Corporation	(312) 666-4511	1850	W	21st	60608
Home of the Child/Cuidar	523-1629	2325	S	California	60608
Gads Hill Center	(312) 226-0963	1919	W	Cullerton	60608
Benton House Over 21 Committee, Inc.	(773) 927-6420	3052	S	Gratten	60608
Bethel Day Care Center	226-7378	1434	S	Lafin	60608
San Jose Obrero Mission	226-0074	1856	S	Loomis	60608
Marcy-Newberry Association	(312) 829-7555	1073	W	Maxwell	60608
Casa Aztlan (Board of Directors of Aztlan)	(312) 666-5508	1831	S	Racine	60608
Carole Robertson Center for Learning	(312) 243-7300	2020	W	Roosevelt	60608
Firman Community Services	373-3400	144	W	47th	60609
Back of the Yards Neighborhood Council	(773) 523-4416	1751	W	47th	60609
Near North Development Corporation	(312) 337-5666	1251	N	Clybourn	60610
Near North Health Service Corporation	(312) 337-1073	1276	N	Clybourn	60610
Young Men's Christian Association of Chicago	(312) 932-1200	801	N	Dearborn	60610
Wayman Day Care Center	943-2120	511	W	Elm	60610
St. Matthew United Methodist Church	(312) 944-3403	1000	N	Orleans	60610
LaSalle Street Community Youth Creative Learning Experience	(312) 664-7490	1111	N	Wells	60610
Catholic Bishop of Chicago	(773) 751-5285	155	E	Superior	60611
Erikson Institute	(312) 755-2250	420	N	Wabash	60611
Marillac Social Center	722-7440	212	S	Francisco	60612

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Bobby E. Wright Comprehensive Community Mental Health Center	(773) 722-7900	9	S	Kedzie	60612
Onward Neighborhood House	666-6726	600	N	Leavitt	60612
Outreach Mission Christian Center	(312) 738-1001	2335	W	Madison	60612
Inner Voice Incorporated	(312) 666-8110	1621	W	Walnut	60612
St. Mark A.M.E. Church	826-4992	3040	W	Washington	60612
Genesis House	(773) 281-3917	911	W	Addison	60613
Progressive Community Center, The People's Church	(773) 924-6561	56	E	48th	60615
Chinese American Service League, Inc.	(312) 791-0418	310	W	24th	60616
Henry Booth House	(312) 225-0800	2450	S	State	60616
Mexican Community Committee of South Chicago	(773) 978-6441	2939	E	91st	60617
Southeast Alcohol and Drug Abuse Center	(773) 731-9100	8640	S	Chicago Avenue	60617
Chicago Youth & Community Services	731-0500	8715	S	Kingston	60617
All Nations Developmental Center	375-7000	8435	S	Stony Island	60617
Korean American Community Services	(773) 583-8281	4300	N	California	60618
Mary Crane League	(773) 404-2522	2905	N	Leavitt	60618
South Central Community Services, Inc.	(773) 483-0900	8316	S	Ellis	60619
Community of St. Sabina/Catholic Bishop of Chicago	483-4300	1210	W	78th	60620
Zion Hill Missionary Baptist Church-South Side	651-2622	1460	W	78th	60620
First Church of Love and Faith	(773) 873-9155	2140	W	79th	60620
Universal Family Connection	(773) 925-2222	7949	S	Western	60620
Seniors of the Third Ward	684-0510	5701	S	Perry	60621
Will Feed Community Organization	(773) 874-9813	6401	S	Sangamon	60621
Institute of Women Today	651-8372	7315	S	Yale	60621
Northwestern University Settlement Association	278-7471	1400	W	Augusta	60622
Casa Central	276-1902	1401	N	California	60622
Christian Fellowship Flock	(773) 278-0873	2435	W	Division	60622
Franciscan Outreach Association	278-6724	1645	W	Lemoyne	60622
BUILD, Inc.	(773) 227-2880	1223	N	Milwaukee	60622
North Avenue Day Nursery	(773) 342-4499	2001	W	Pierce	60622
Erie Neighborhood House	(312) 563-5800	1701	W	Superior	60622
Chicago Commons Association	(773) 342-5330	915	N	Wolcott	60622
Day Care in Lawndale, Inc.	522-4411	1448	S	Homan	60623

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Latino Youth, Inc.	(773) 277-0400	2200	S	Marshall	60623
Operation Brotherhood West Center	(773) 522-0433	3745	W	Ogden	60623
BBF Family Services	(773) 277-9582	1512	S	Pulaski	60623
Bethel New Life, Inc.	(773) 826-5540	367	N	Karlov	60624
H.I.C.A., Inc.	638-1788	3724	W	Lexington	60624
Albany Park Community Center, Inc.	(773) 583-5111	3403	W	Lawrence	60625
Housing Opportunities For Women, Inc.	(773) 274-0491	1607	W	Howard	60626
Rogers Park Community Council	(773) 338-7722	1772	W	Lunt	60626
Good News Partners	743-9673	7632	N	Paulina	60626
Howard Area Community Center	(773) 262-6622	7648	N	Paulina	60626
Trinity United Church of Christ	(773) 962-5650	400	W	95th	60628
LAMBB Multi-Purpose Community Service Center	821-7989	1140 7	S	Edbrooke	60628
South Side Help Center	(773) 445-5445	1042 0	S	Halsted	60628
Chicago State University	(773) 995-2000	9501	S	King	60628
Community Learning Center, Inc.	928-4104	1061 2	S	Wentworth	60628
Southwest Women Working Together	(773) 582-0550	4051	W	63rd	60629
Lithuanian Human Services Council of the USA, Inc.	(773) 476-2655	2711	W	71st	60629
Southwest Community Congress	(773) 436-6150	6400	S	Kedzie	60629
ChildServ	693-0300	8765	W	Higgins	60631
Greater Chicago Food Depository	(773) 247-3663	4501	S	Tripp	60632
West Englewood United Organization	778-8854	1650	W	62nd	60636
Church of God True Believers	471-5222	1738	W	67th	60636
Woodlawn A.M.E. Church	667-1400	6456	S	Evans	60637
The Woodlawn Organization	288-5840	6040	S	Harper	60637
First Presbyterian Church of Chicago	363-0505	6400	S	Kimbark	60637
Hermosa Community Organization	(773) 252-6729	1921	N	Kedvale	60639
Northeast Austin Organization	(773) 745-8222	5057	W	North	60639
South East Asia Center	(773) 989-6927	1134	W	Ainslie	60640
St. Augustine College	878-8756	1333	W	Argyle	60640
Asian Human Services, Inc.	(773) 728-2235	4753	N	Broadway	60640
St. Augustine's Center for American Indians, Inc.	561-8555	4512	N	Sheridan	60640

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Lakefront S.R.O. Corporation	561-0900	4946	N	Sheridan	60640
Karen Cruz Children's Center	728-1777	1507	W	Sunnyside	60640
Cornerstone Community Outreach, Inc.	(773) 271-8163	939	W	Wilson	60640
Polish American Association	(773) 282-8206	3834	N	Cicero	60641
Community Supportive Living Systems, Inc.	(773) 785-8000	1125 0	S	Halsted	60643
Catholic Youth Ministry Center at Morgan Park High School	(773) 881-0193	1825	W	Monterey	60643
Circle Urban Ministries	(773) 921-1446	118	N	Central	60644
Austin Peoples Action Center	921-2121	5931	W	Corcoran	60644
Habilitative Systems, Inc.	(773) 261-2252	415	S	Kilpatrick	60644
Prevention Partnership, Inc.	(773) 378-4195	5936	W	Lake	60644
South Austin Community Development Corp	626-3928	301	N	Mayfield	60644
Learning Network	(773) 378-7076	5911	W	Midway Park	60644
Westtown Concerned Citizens Coalition	(773) 235-2144	3501	W	Armitage	60647
New Moms	252-3253	2825	W	McLean	60647
Deborah's Place	(773) 292-0707	1742	N	Milwaukee	60647
Humboldt Park United Methodist Church	(773) 342-0178	2120	N	Mozart	60647
Youth Service Project, Inc.	(773) 772-6270	3942	W	North	60647
Aspira, Inc. of Illinois	(773) 252-0970	2435	N	Western	60647
South Shore Bible Baptist Church	493-7500	1631	E	71st	60649
Excellent Way Urban Outreach Ministry	(773) 375-0215	2510	E	79th	60649
Sullivan House	(773) 324-5014	7305	S	Clyde	60649
South Shore Bible Baptist Day Care Center	363-3888	7159	S	Cornell	60649
South Shore United Methodist Child Care Center	324-4430	7350	S	Jeffery	60649
South Shore Community Church Day Care Center	768-7640	7401	S	Yates	60649
Healing Temple Church of God in Christ	261-5433	4941	W	Chicago	60651
Lutheran Family Mission	(773) 287-2921	1140	N	Lamon	60651
Mid-Austin Steering Committee	(773) 287-5717	816	N	Laramie	60651
Trinity Resources Unlimited, Inc.	(773) 626-3974	1210	N	Waller	60651
Wrightwood Community Development Corporation	(773) 476-9880	3209	W	83rd	60652
Kenwood Oakland Community Organization	(773) 548-7500	1238	E	46th	60653
Abraham Lincoln Centre	(773) 373-6600	3858	S	Cottage Grove	60653
Grant Day Care	285-8440	4025	S	Drexel	60653

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Centers for New Horizons, Inc.	(773) 373-5700	4150	S	King	60653
Chicago Urban League	(773) 285-5800	4510	S	Michigan Avenue	60653
Hazotte Ministries, Inc. (Unity House)	285-2668	4331	S	Vinnennes	60653
First Church of Deliverance	373-7700	4301	S	Wabash	60653
St. Paul Church of God in Christ	(773) 285-8721	4526	S	Wabash	60653
Teen Living Programs	(773) 883-0025	3179	N	Broadway	60657
Counseling Center of Lake View	(773) 549-5886	3225	N	Sheffield	60657
Edgewater Community Council	(773) 334-5609	1042	W	Bryn Mawr	60660
Alternatives, Inc.	(773) 973-5400	1126	W	Granville	60660
Safer Foundation	(312) 922-2200	571	W	JACKSON	60661
Salvation Army	(312) 733-2533	10	W	Algonquin	60016
Ariel Foundation	(312) 726-0140	307	N	Michigan	60601
Chicago Youth Program, Inc. (Cabrini Youth Program)	(312) 565-0257	130	E	Randolph	60601
Metropolitan Chicago Council of Camp Fire, Inc.	(312) 263-6218	203	N	Wabash	60601
Pro Bono Advocates	(312) 827-2420	28	N	Clark	60602
Board of Education of the City of Chicago	(773) 553-1500	125	S	Clark	60603
Support Group	(773) 978-5029	8	S	Michigan	60603
Chicago Youth Centers	(312) 648-1550	104	S	Michigan	60603
Rainbow House/Arco Iris	(312) 935-3430	20	E	Jackson	60604
Big Brothers-Big Sisters of Metropolitan Chicago	(312) 427-0637	28	E	Jackson	60604
Community and Economic Development Association of Cook County, Inc. (CEDA)	(312) 795-8955	208	S	LaSalle	60604
Chicago Area Project	(312) 663-3574	200	S	Michigan	60604
Chicago Center For Health Systems Development, Inc.	(312) 747-9828	333	S	State	60604
Hull House Association	(312) 906-8600	10	S	Riverside Plaza	60606
Girl Scouts of Chicago	(312) 416-2500	222	S	Riverside Plaza	60606
Midtown Educational Foundation	(312) 738-8300	718	S	Loomis	60607
Interfaith Housing Development Corporation of Chicago	(312) 850-9184	100	S	Morgan	60607
United Neighborhood Organization of Chicago	(312) 432-6301	954	W	Washington	60607
St. Pius V Parish/Catholic Bishop of Chicago	(312) 226-6161	1919	S	Ashland	60608
La Cruzada Church	(773) 247-4458	2624	W	Cermak	60608

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Resurrection Project	666-1323	1818	S	Paulina	60608
Alivio Medical Center	(773) 650-1200	2533	S	Western	60608
San Miguel Center, Inc.	(773) 890-0233	1949	W	48th	60609
Port	778-5955	5058	S	Ashland	60609
Connexions Enterprises	(773) 778 - 09	5102	S.	Western	60609
Holy Cross-IHM Parish/Catholic Bishop of Chicago	(773) 376-3900	4541	S	Wood	60609
Chicago Fellowship of Friends	(312) 944-4493	515	W	Oak	60610
Boys and Girls Clubs of Chicago	(312) 258-1601	820	N	Orleans	60610
St. Joseph Parish/Catholic Bishop of Chicago	(312) 787-9824	1107	N	Orleans	60610
City Year, Inc.	(312) 464-9899	545	N	Michigan	60611
Westside Baptist Ministers Conference	(773) 265-7632	325	S	California	60612
Rush-Presbyterian/St. Luke's Medical Center	(312) 942-6501	1653	W	Congress Parkway	60612
Christians Building Urban Communities	(773) 826-0097	2918	W	Fillmore	60612
Cathedral Shelter of Chicago	997-2222	1668	W	Ogden	60612
Board of Trustees of the University of Illinois	(312) 996-2860	1919	W	Taylor	60612
St. Leonard's Ministries	(312) 738-1414	2100	W	Warren	60612
Youth Service Committee of the Westside	(312) 666-9552	1832	W	Washington	60612
Lakeview Shelter, Inc.	(773) 327-1389	835	W	Addison	60613
Night Ministry	(773) 935-8300	1218	W	Addison	60613
Employment Project	(312) 913-2048	1800	W	Larchmont	60613
Howard Brown Health Center	(773) 388-8790	4025	N	Sheridan	60613
Chicago House and Social Service Agency, Inc.	(773) 248-5200	1925	N	Clybourn	60614
Christopher House	(773) 472-1083	2507	N	Greenview	60614
Behavior Research and Action in Social Sciences Foundation, Inc.	(773) 488-6600	340	E	51st	60615
South Side Little League	(773) 874-0071	1507	E	53rd	60615
Infant Welfare Society of Chicago	(312) 751-2800	1931	N	Halsted	60615
Pilsen Homeless Services	(312) 421-4126	731	W	17th	60616
De La Salle Institute	(312) 842-8350	3455	S	Wabash	60616
Israel Academy	(773) 734-0302	2938	E	91st	60617
Dorsey's Development Institute		2050	S	93rd	60617
South Chicago Consortium	(773) 221-0803	9204	S	Commercial	60617
Vernon Park Church of God	721-9011	9011	S	Stony Island	60617

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Neighborhood Boys & Girls Club	(773) 463-4161	2501	W	Irving Park	60618
Albany Park Theater Project	(773) 866-0875	2430	W	Pensacola	60618
Bray Temple Christian Methodist Episcopal Church of Chicago	493-7092	1049	E	73rd	60619
South Shore DrillTeam	(773) 631-1198	631	E	90th	60619
Institute Of Positive Education	(773) 651-9599	7825	S	Ellis	60619
Missionary P.A. Oseibonsu's Committee's Appeal For Charities and Goodwill For Foreign Mission Outreaches	651-5400	50	W	71st	60620
Family Cares (AFC) Mission	(773) 723-5400	7859	S	Ashland	60620
St. Elizabeth Catholic Worker	874-2500	8025	S	Honore	60620
Evalind Organization, Inc. (The)	(773) 226-9340	6333	S	Green	60621
Holy Rock Outreach Ministries	471-0751	5847	S	Morgan	60621
Coalition of Latin American Ministers	(773) 489-7212	2047	W	Augusta	60622
Street-Level Youth Media	(773) 862-5331	1856	W	Chicago	60622
Spanish Action Committee of Chicago	(773) 292-1052	2452	W	Division	60622
Diane's Community Shelter	(773) 265-9260	3348	W	16th	60623
St. Agatha Family Empowerment/Catholic Bishop of Chicago	522-3050	3147	W	Douglas	60623
Suburban Job-Link Corporation	(773) 522-8700	2343	S	Kedzie	60623
Lawndale Christian Development Corporation	(773) 762-8889	3843	W	Ogden	60623
Greater Westside Development Corporation		3333	W	Arthington	60624
Interfaith House	(773) 533-6013	3456	W	Franklin	60624
Good Samaritan Community Services	521-0529	3555	W	Roosevelt	60624
Agape' Youth Development and Family Support Services, Inc.	(773) 638-6718	320	S	Spaulding	60624
Presentation Church/Catholic Bishop of Chicago	(773) 533-2820	734	S	Springfield	60624
Urban Family and Community Centers	722-8333	4241	W	Washington	60624
Lawrence Hall Youth Services	769-3500	4833	N	Francisco	60625
Cambodian Association of Illinois	(773) 878-7090	2831	W	Lawrence	60625
Lester and Rosalie Anixter Center	(773) 929-8200	6610	N	Clark	60626
Family Matters	(773) 465-6011	7731	N	Marshfield	60626
Rogers Park Children's Learning Center	(773) 973-1521	1545	W	Morse	60626
Little People Day Care & Kindergarten, Inc.		7612	N	Rogers	60626
Sunny Rehabilitation House	785-1246	1374 1	S	Leyden	60627

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Beulah A.G. Smith Scholarship Fund	(773) 445-6264	255	W	103rd St	60628
No Dope Express Foundation	(773) 568-5600	901	E	104th	60628
L.I.N.K. Kids of the Future Organization	(773) 785-5729	238	W	95th	60628
Make A Difference Youth Foundation	(773) 852-3367	1044 5	S	Emerald	60628
South Side Educational Center For Youth	(773) 821-9970	1080 5	S	Halsted	60628
BROCK Social Services Organization for the South Side	(773) 291-0500	1122 3	S	Halsted	60628
Roseland Christian Ministries Center	(773) 264-5655	1085 8	S	Michigan	60628
Chicago Roseland Coalition for Community Control	(773) 264-3500	1101 5	S	Michigan	60628
Chicago South Swim Club	(773) 926-5065	1000 1	S	Woodlawn	60628
Arab American Action Network	(773) 436-6060	3148	W	63rd	60629
Southwest Youth Services Collaborative	(773) 476-3534	3154	W	63rd	60629
Comprehensive Korean Self-Help Center	(773) 545-8348	4934	N	Pulaski	60630
Youth Outreach Services	(773) 202-1973	6417	W	Irving Park	60634
Chicago Urban Day School	483-3555	1248	W	69th	60636
Olive Branch Mission	(773) 476-6200	6310	S	Claremont	60636
Reach Out and Touch	(773) 436-3176	5510	S	Paulina	60636
Blue Gargoyle Youth Service Center	(773) 955-4108	5655	S	University	60637
Bethesda Human Resource Ministry	(773) 252-5727	4538	W	Fullerton	60639
Chinese Mutual Aid Association	(773) 784-2900	1016	W	Argyle	60640
Residents For Effective Shelter Transitions	(773) 784-0909	941	W	Lawrence	60640
Harper House	(773) 784-5698	4715	N	Sheridan	60640
Ethiopian Community Association of Chicago, Inc.	(773) 728-0303	4750	N	Sheridan	60640
Beacon Street Gallery Performance Co.	(773) 907-4840	1145	W	Wilson	60640
Chicago Catholic Women	(708) 636-0055	3343	W	95th	60642
Beacon Therapeutic Diagnostic and Treatment Center, Inc.	(773) 298-1243	1912	W	103rd	60643
Central Baptist Children's Home		1102 4	S	Bell	60643
Circle Family Care	(773) 379-1000	5002	W	Madison	60644
Home of Life Community Development Corp	(773) 626-8655	4647	W	Washington	60644
Friends of Battered Women and Their Children	(773) 274-5232	2301	W	Howard	60645

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Lutheran Social Services of Illinois	(773) 282-4342	4747	W	Peterson	60646
Healthcare Alternative Systems	(773) 252-3100	2755	W	Armitage	60647
Forward P.C.	(312) 878-8756	3265	W	Armitage	60647
Puerto Rican Cultural Center		1671	N	Claremont	60647
New Life Family Services	(773) 384-7113	1663	N	Mozart	60647
Logan Square Neighborhood Association	(773) 384-4370	3321	W	WrightWood	60647
Featherfist	(773) 721-7088	2255	E	75th	60649
STEP, Inc.	(773) 667-5566	6740	S	South Shore Drive	60649
Westside Planning and Development		4817	W	Chicago	60651
Douglass-Tubman Youth Ministries, Inc.		5010	W	Chicago	60651
Fraternite Notre Dame, Inc.	(773) 378-1629	5639	W	Chicago	60651
Chicago Anti-Hunger Federation	(773) 252-3663	4345	W	Division	60651
Westside Holistic Family Services	(773) 921-8777	4909	W	Division	60651
Worldwide Family Center Organization	(773) 489-1710	3679	W	Grand	60651
Austin Youth League	(773) 379-7940	947	N	Menard	60651
Family Outreach and Education Center, Inc.	(773) 252-0509	1132	N	Spaulding	60651
Concerned Citizens Inc	(773) 252-5360	904	N	St. Louis	60651
New Hope Community Service Center	(773) 737-9555	2701	W	79th	60652
Matthew House	(773) 536-3661	3722	S	Indiana	60653
OKSHARE, Inc.	(773) 536-1984	3709	S	Lake Park	60653
Saint Xavier University	(773) 298-3309	3700	W	103rd	60655
Unity Parenting & Counseling Center	(773) 239-6060	2760	W	111th	60655
Broadway Children's Center	(773) 549-1360	615	W	Wellington	60657
Wild Onion Chess Club, Inc.	(773) 274-4043	6136	N	Clark	60660
Centro Romero	(773) 508-5300	6216	N	Clark	60660
Goldie's Place	(773) 274-1212	6238	N	Clark	60660
Samaritan Community Center	(773) 761-5119	1343	W	Devon	60660
Thresholds	(773) 281-3800	4101	N	Ravenswood	60660
Greek Archdiocese, Second Archdiocesan District, Welfare Foundation	(773) 728-2601	6251	W	Touhy	60660
Catholic Charities of the Archdiocese of Chicago	(312) 655-7878	126	N	Des Plaines	60661
Mr. Malo Youth Center	(773) 768-7750	1061 4	S	Torrence	606d17

**Appendix A-9 Delegate Agencies' Sites
(continued)**

DELEGATE AGENCIES' SITES

DELEGATE AGENCIES	PHONE	ADDRESS			ZIP
Chicago South Community Development Organization	(708) 388-9268	1233 8	S	Halsted	60827
Bethany Brethren Community Center	(773) 533-9799	425	S	Central Park	

CTA RIGHTS OF WAY

[See Maps on CivicNet Website www.chicagocivicnet.net]

CHICAGO FREIGHT TUNNELS

[See Maps on CivicNet Website www.chicagocivicnet.net]

CHICAGO OUTFALL SEWER PATHWAYS

[see Maps on CivicNet Website www.chicagocivicnet.net]

Appendix C-1 CTA Tunnels and Structures

FIBER OPTIC OUTSIDE PLANT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The work of this Section shall consist of the furnishing, installing, and testing of the Fiber Optic Outside Plant portion of the Communications System complete with fiber optic cable, innerduct with and without integrated messenger, splice and slack enclosures, pigtails and patch panels, and equipment racks, & as required for a fully operational system that provides all the features and functions identified herein and shown on the Contract Drawings.
- B. All fiber optic cable and associated materials furnished and installed in the CTA Subway Tunnels shall be environmentally safe, non-combustible, low smoke halogen free materials, and meet all of the safety requirements as defined by the National Fire Protection Association (NFPA).
- C. The Fiber Optic Outside Plant shall be based upon a single 288 strand, (unless noted otherwise), optical cable installed in a fiber optic innerduct. The Outside Plant shall consist of one geographical segment of the Blue Line, the O'Hare Branch which shall originate from Jackson Station in the Dearborn Subway, transition from the subway to the elevated structure, back to the Logan Square Subway, to the Kennedy Expressway Median and northwest into a tunnel which terminates in the CTA O'Hare Terminal RT Station. The cable shall be installed along the CTA right-of-way and have a 72 strand (or Two-36 strand) fiber optic cables branch off at each CTA RT Station along the Blue Line O'Hare Segment, and terminate as FO Cable coils (approx. 200 feet long) in Fiberglass Slack Enclosures (or stainless steel enclosures in Subways), with no mid-span splicing of the cable between stations. In addition the entire 288 fiber strands of the Fiber Optic Cable shall also be terminated at O'Hare Terminal Station, Rosemont Shop Basement Comm. Room, SR 93 (Dearborn Subway), and Jackson Dearborn Subway Station, and patched thru strand for strand at Rosemont and SR 93.
- D. The Fiber Optic Cable shall also include 96 strand breakouts with branch cables at 9 locations along the X'Way Route Segment for the Illinois Dept. of Transportation.
- E. The Fiber Optic Cable shall also include 48 strand breakouts with branch cables at all CTA breakout locations along the route for the City of Chicago Dept. of Transportation.
- F. The Contractor shall provide all performance and loss calculations and verify by testing with hard copy results provided to the CTA.

1.02 TECHNICAL ABBREVIATIONS AND DEFINITIONS

- A. The following abbreviations, acronyms and their definitions are used in this Section:

•	AC	Alternating Current
•	ANSI	American National Standards Institute
•	ASQC	American Society for Quality Control
•	ASTM	American Society for Testing Materials
•	AWG	American Wire Gage
•	Bellcore	Bell Communication Research
•	°C	Degrees Centigrade
•	CTA	Chicago Transit Authority
•	dB	Decibel
•	DC	Direct Current
•	DS	Devices Serviced
•	DTMF	Dual Tone Multi-Frequency Signaling
•	EIA	Electronic Industries Association
•	°F	Degrees Fahrenheit
•	FDP	Fiber Distribution Panel
•	FSE	Fiber Slack Enclosures
•	GRS	Galvanized Rigid Steel Conduit
•	ICEA	Insulated Cable Engineers Association
•	IEEE	Institute of Electrical and Electronic Engineers
•	kHz	kilohertz per second
•	Mb/s	Megabits per second
•	MDF	Main Distribution Frame
•	NEBS	Network Equipment Building System

- NEC National Electrical Code
- NEMA National Electrical Manufacturers Association
- NES Nodal Equipment Shelter
- Node Fiber transmission equipment site that provides wire termination for connecting user devices to the Network
- OSP Outside Plant
- OTDR Optical Time Domain Reflectometer
- REA Rural Electrification Administration
- RTU Remote Terminal Unit
- SCADA Supervisory Control and Data Acquisition
- SONET Synchronous Optical Network
- TDR Time Domain Reflectometer
- TIA Telecommunications Indust~ Association
- V Volt
- VAC Volts Alternating Current
- VCR Video Cassette Recorder
- VDC Volts Direct Current
- VF Voice Frequency

1.03 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of these Specifications to the extent referenced. The publications are referred to in the text by basic designation only. Conform to reference standards by date of issue in effect on date of Contract Advertisement.
- B. Bell Communications Research (Bellcore):
1. TR-TSY-000020, Generic Requirement for Optical Fiber and Optical Fiber Cables
- C. American National Standards Institute / Electronic Industries Association / Telecommunications Industry Association (ANSI/EIA/TIA) Specifications:
1. ANSI/EIA/TIA-472, Generic Specification of Fiber Optic Cables
 2. ANSI/EIA-472DA00-1992, Sectional Specification for Fiber Optic Communication Cable for Outside Aerial Use.
 3. ANSI/EIA-472D000-A, Sectional Specification for Fiber Optic Communication Cable for Underground and Buried Use.
 4. ANSI/EIA/TIA-526-07, Optical Fiber Systems Test Procedures - Optical Power Loss Measurements of Installed Single Mode Fiber Optic Plant
 5. ANSI/EIA/TIA-475-AAAA, Detail Specification for Fiber Optic Connector Set; Type SC, Singlemode, Simplex and Duplex Versions.
 6. ANSI/EIA/TIA-455-8, Measurement of Splice or Connector Loss in Reflectance Using OTDR.
 7. ANSI/EIA/TIA-609AA00, Blank Detail Specification for Conventional, Permanent, Optical Fiber Splices.
 8. ANSI/EIA/TIA-598-A, Color Coding of Fiber Optic Cables
 9. ANSI/EIA/TIA-455, Generic Fiber Optic Test Procedures, as applicable
 10. ANSI/EIA/TIA-568, Commercial Building Telecommunications Wiring Standard

1.04 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 16702 - Copper Outside Plant
- B. Section 16703 - Fiber Optic Transmission System
- C. Section 16704 - Copper Transmission System
- D. Section 16838 - Communication Equipment Shelters
- E. Section 01010 - Summary of Work
- F. Section 02210 - Earth Excavation
- G. Section 02221 - Trench/Backfill
- H. Section 02222 - Special Excavation

1.05 QUALITY ASSURANCE

- A. The Manufacturer(s) of the system equipment shall be submitted to the Engineer for approval, The Contractor shall provide all of the data required for the Engineer's evaluation and shall make all of the necessary arrangements for any required demonstrations and tests. The Contractor shall certify that the proposed Manufacturer shall comply completely with all the requirements of this Contract.

1. **Manufacturer Qualifications.** The proposed Manufacturer shall have, as a minimum, five (5) years experience in the successful manufacturing and installation of fiber optic outside plant materials and shall have a minimum of five (5) systems of size and complexity comparable to the system specified herein. Each system shall have been on-line and operating satisfactorily for a minimum of twelve (12) months.
2. The Manufacturer shall provide the names, addresses, and telephone numbers of operating personnel who can be contacted regarding the systems. A demonstration of the system shall be arranged upon request.
3. **Quality Assurance Program.** The Manufacturer shall demonstrate a Quality Assurance Program that meets the intent of ASQC Q90; General Requirements for a Quality Assurance Program (US equivalent of ISO 9000). Compliance with the Quality Assurance Program shall produce a thoroughly tested unit which will render long service life to the user and insure that malfunctions can not be attributed to actions or lack of actions by the Manufacturer.

1.06 SUBMITTALS

- A. The Contractor shall submit the following items as specified herein:
 1. All submittals as required in Section 01010 of this Specification.
 2. Single line block and system diagrams detailing the entire fiber optic outside plant system,
 - a. A block diagram shall be submitted showing interconnection between major independent elements, such as fiber optic cable, and fiber distribution panels or frames,
 - b. Optical path loss budget analysis detailing passive loss on each optical link between nodes and/or between two consecutive links.
- B. The Contractor shall submit complete original sets (photocopies of printed material are not acceptable) of the following to the Engineer for approval prior to ordering any of the equipment specified in this Section. The Contractor shall provide seven (7) copies of product literature/catalog cuts; six (6) copies of shop drawings; and three (3) copies of samples.
 1. Proposed Manufacturer's detailed product data "cut-sheets" and specifications for each piece of equipment to be furnished.
 2. Installation details of fiber optic cable, fiberglass Slack Enclosures, and termination/splicing equipment.
 3. Wiring diagrams of distribution frames, equipment racks, and the fiber optic cable.
 4. Detailed testing procedures and certified copies of all test results and reports, including actual path loss measurement data.
 5. All shop drawings as detailed herein.
 6. Copies of the Contractors splice log.
 7. Factory tests, pre-installation, post-installation, and final acceptance test results specified under Section 16701, 3.02.G, and elsewhere.

1.07 SHOP DRAWINGS

- A. See Section 01040 - PROJECT COORDINATION

PART 2 - PRODUCTS

2.01 FIBER OPTIC CABLE

- A. Mounting hardware for the Fiber Optic Cable shall be as shown on the plans or specified herein.
- B. The cable shall meet, as a minimum, the following specifications and shall conform with the latest issue of Bellcore TR-TSY-O00020: Generic Requirement for Optical Fiber and Optical Fiber Cables, and ANSI/EIA-472: Generic Specification of Fiber Optic Cables, and appropriate Sectional Specifications thereof.
 1. **Cable Construction.** Cable construction, other than as specified, must be approved by the Engineer. The cable shall be constructed entirely from dielectric material.
 2. A cable suitable for either direct installation into a duct bank or innerduct/conduit affixed directly to subway walls, or installation into an innerduct for underground installation or self-supported suspension between poles,

or supported from elevated structures, (e.g., within an aerially self-supported or figure eight innerduct) shall be supplied.

3. The cable shall be of gel-filled, loose tube construction with up to twenty four (24) buffer tubes wrapped around a dielectric central strength member. All fiber(s) shall be contained within buffer tubes, and each buffer tube shall have an inside diameter much greater than the total diameter(s) of the fiber(s) it supports. All fiber(s) shall be contained within buffer tubes, and each buffer tube shall have an inside diameter much greater than the total diameter(s) of the fiber(s) it supports.
4. Each fiber or group of fibers shall be free-floating within the tubes such that all mechanically or environmentally induced stress placed upon the cable is de-coupled from the fibers. The air within the buffer tubes shall be displaced with a gel to prevent entry by water and to facilitate free movement of the fiber(s) within.
5. The fiber optic cable shall conform with the latest issue of EIA/TIA-598, for color coding. Identification of buffer tubes and fiber strands shall be such that they can be easily identified by field forces without the use of special equipment or tools.
 - a. Cables constructed of less than six fibers shall have a buffer tube provided for each fiber; cables constructed of more than six fibers may have several fibers occupy a buffer tube, with equal distribution of fibers as far as practicable. When more than one fiber occupies a buffer tube, the fibers shall be color coded for identification.
 - b. The cable shall have an interstitial filling between the buffer tubes and throughout the remainder of the cable to prevent entry of water.
 - c. A binder wrapping strength member of Kevlar, or approved equal, fibers shall be provided as a final layer prior to application of the outer jacket.
 - d. The cable shall be provided in continuous lengths. Each fiber shall be pulled from the same optical waveguide form and shall be free of splices. Optical fibers are to be made from silica; the use of any other material must be approved by the Engineer.
 - e. A permanent marking shall be employed on the outer jacket of the cable which shall show the date of manufacture, the Manufacturer's name, and the words 'FIBER OPTIC CABLE'. A numerical sequence shall be marked on the outer jacket, at intervals no greater than ten (10) feet, to facilitate determination of length of cable and amount of cable remaining on the reel.
 - f. All optical fibers shall be proof tested by the fiber manufacturer at a minimum load of 100 kpsi, see submittals this section.
 - g. All optical fibers shall be 100% attenuation tested at the factory for compliance with performance specifications described herein. The attenuation of each fiber shall be provided with each cable reel (see submittals this section).
 - h. The outer jacket shall be constructed of medium density polyethylene, minimum jacket thickness of 1.4 mm. Jacketing material shall be applied directly over the tensile strength members and flooding compound. The outer jacket shall be ultra-violet ray and fungus resistant.
 - i. The cable installed in the subway shall be of low smoke, zero halogen, fire retardant manufacture that meets or exceeds National Fire Protection Association Standard 130.
 - j. Fiber optic cable shall be provided with the required number of strands as shown in the Contract Drawings.

6. Optical and mechanical specifications for the standard fiber optic cable and the low smoke fiber optic cable:

a. Optical Specifications

Operational Wavelength	1,300nm and 1,550nm
Optical Attenuation	@ 1,300nm: 0.4dB/km @ 20° C (max) @ 1,550nm: 0.3dB/km @ 20° C (max)
Optical Dispersion	@ 1,300nm: 3.5 – 4.5 psec/nm-km (max) @ 1,550nm: more than 20 psec/nm-km (max)
Zero Dispersion	Wavelength 1,290 – 1,330nm
Fiber Core Diameter	10 um, maximum
Fiber Coating Diameter	250 +/- 15 um

Fiber Cladding Diameter	125 um +/- 3 um Core/Cladding
Concentricity	1.0 um, maximum
Spot Size	9.8 um
Refractive Index Difference	0.3 +/- 0.5%

b. Mechanical Specifications

Crush Resistance	5,000 N/m, length of cable
Cable Outside Diameter	11.9 mm (0.47"), nominal
Minimum Bending Radius:	
- Installation	20 times the cable diameter
- Static	10 times the cable diameter
Temperature:	
- Operational	-30° C to + 60° C
- Storage	-40° C to + 60° C (on reel)
- Humidity	0 to 100%
Tensile Strength:	
- Installation	2,700 N (600 lbf)
- Static	600 N (135 lbf)

7. The fiber optic cable shall be Siecor 096R14-14101-20, AT&T AT-340-12-LT096 or engineer approved equivalent.

The low smoke, zero halogen fiber optic cable shall be Siecor 096R1Z-14103-20 or engineer approved equivalent.

2.02 FIBER OPTIC CONNECTORS

- A. All optical connectors shall be factory installed on optical patchcords or pigtails. No field installation of connectors shall be permitted. The singlemode connectors furnished on optical patch cords and pigtails shall be ST Type, physical contact (PC). The connectors shall meet, as a minimum, the following specifications:

Nominal Insertion Loss:	0.25 dB, mated pair 0.50 dB max, mated pair
Reflectance:	less than -55 dB
Attenuation (Average, 3 readings, 120 degree spacing):	0.4 dB, maximum @ 1300 nm
Mechanical Stability:	0.3 dB change, maximum
Tensile Stability:	0.3 dB change, maximum
Thermal Stability (5 cycles, -20°C to +60°C):	0.4 dB change, maximum

- B. The connector utilized on this Contract shall be Siecor model ST Ultra PC, or engineer approved equivalent.
- C. The pigtails, as specified elsewhere, with the factory installed ST Type Connectors shall be fusion spliced to the field fiber.

2.03 OPTICAL PATCH CORDS AND PIGTAILS

- A. The optical patch cords furnished under this Contract shall consist of a section of single fiber, jacketed cable equipped with optical connectors at both ends, of sufficient length.
1. Patch cords for connections within the FOP shall be equipped with approved connectors on both ends of the patch cord, as specified herein.
 2. Patch cords for connections from FDP to optical multiplexer shall be equipped with an approved connector on both ends.

- B. The optical pigtails furnished under this Contract shall consist of a section of single fiber, jacketed cable of sufficient length, equipped with an approved factory installed connector at one end. The other end shall be stripped and prepared for fusion splicing. The pigtails shall be provided pre-wired to connector modules in the fiber distribution panel, as described elsewhere in this Section.
- C. The approved connectors furnished as part of optical patch cords and pigtails shall meet or exceed the requirements for approved connectors specified herein.
- D. The fiber portion of each patch cord and pigtail shall be a single, singlemode, jacketed fiber with optical properties identical to the asp cable furnished under this Contract. The fiber jacket shall be an Engineer-approved low smoke, low toxicity, flame retardant sheath. The jacketed fiber shall have a tensile strength in excess of twenty pounds (20 lbs).

2.04 FIBER DISTRIBUTION PANELS

- A. Fiber Distribution Panels (FDPs) shall be furnished and installed at the locations shown on the Contract Drawings and shall consist of two parts: an optical splice shelf and an optical connector housing (patch panel).
 - 1. The splice shelf shall house and protect a maximum of 288 fusion splices of OSP fibers to singlemode fiber pigtails with twelve (12) feet of pigtail slack on each fiber.
 - a. The splice shelf shall house a maximum of 24 splice trays.
 - b. Each splice tray shall be capable of storing and protecting a maximum of 12 fusion splices with heat shrink protection, and shall include a clear plastic tray cover.
 - c. The splice tray shall be Siecormodel M67-048-C, or engineer approved equivalent.
 - d. The splice shelf shall be Siecormodel FDC-SMH-5 or engineer approved equivalent.
 - 2. The optical connector housing shall house and protect a maximum of 96 connectorized strands per shelf. If more than 96 strands are used, the Contractor shall provide additional shelves.
 - a. The fiber pigtail slack shall be neatly coiled and secured in a manner that does not allow the minimum operational bending radius of the pigtail to be exceeded.
 - b. The approved type singlemode connectors on the end of each pigtail shall screw into a sleeve securely mounted to a panel within the FDP enclosure. The patch panel shall be provided with pre-connectorized and pre-wired 8-port modules. The maximum optical loss across the connection shall not exceed 0.25 dB. The module shall be Siecormodel FDC-CP8P-38 or engineer approved equivalent.
 - c. The optical connector housing shall be Siecormodel FDC-CMH-096 or engineer approved equivalent.
 - 3. The FDP housings shall be capable of rack mounting in EIA-310 standard 23 equipment racks, as shown on the Contract Drawings. The housing shall have OSP cable entrances with cable sheath strain relief.

2.05 FIBER OPTIC SPLICE AND SPLICE ENCLOSURE

- A. All permanent optical splices in the system shall be of the fusion type method.
 - 1. There shall be no midspan splices of the fiber optic cable, unless otherwise noted. All cables must originate and end at an optical node, fusion spliced to a fiber distribution panel or to another cable run.
 - 2. A factory fabricated fusion splice kit containing materials necessary for quality fusion splicing shall be provided for each fiber splice.
 - 3. Splices made with the factory fabricated single mode fusion splice kit shall be capable of achieving not more than 0.05 dB loss at 1310
 - 4. An emergency restoration kit shall be provided to perform temporary splices. This kit shall include all necessary tools and materials to perform mechanical splices. Each mechanical splice kit shall be capable of achieving not more than 0.1 dB loss at any wavelength.
 - 5. The Contractor shall keep a log of all splices and testing thereof, see submittals this section.
- B. In the event that a midspan splice are necessary, and at each RT Station and at various Fiber Optic Cable Breakout points, the Contractor shall provide a Fiber Cable Breakout and Splice Enclosure:

1. The outdoor optical splice enclosure shall be capable of aerial, duct or buried applications.
2. The splice enclosure shall consist of an outer enclosure, an inner enclosure, and splice trays.
3. The splice enclosure shall be suitable for application in the temperature range of -40°C to $+70$
4. The splice enclosure shall provide space allowing entry of fiber optic cable without exceeding the minimum bend radius of the cable.
5. The splice enclosure shall be capable of through, branch, or mid-span type splice locations.
6. The splice enclosure shall be designed to permit selective fiber splicing (looping a backbone cable in and out while only cutting into the desired fibers).
7. The splice enclosure shall allow splicing of all fibers up to the maximum number determined by the Contractor for the fiber optic cable.
8. The outer enclosure shall be waterproof, re-enterable and shall utilize an encapsulant between the inner and outer enclosure to prevent the ingress of moisture.
9. The inner enclosure shall be designed to protect the buffer tubes and the splice trays.
10. The inner enclosure shall be re-enterable.
11. The splice trays within the inner enclosure shall be capable of accommodating the required number of splices, including storage and protection of slack fiber.
12. The breakout and splice enclosures installed within the CTA Subways shall be manufactured of non-combustible, low smoke, halogen free materials.
13. The splice enclosure shall include provisions to support the innerduct entry to the enclosure utilizing compression fittings and clamps, in accordance with the manufacturer's recommended practice.

2.06 FIBER SLACK ENCLOSURES

- A. Fiber Slack Enclosures (FSEs) shall be provided and installed as part of this Contract, in the locations as shown on the Contract Drawings.
1. FSEs shall house and protect fiber optic cable slack in a manner, which shall allow the CTA engineering personnel access so as to accommodate construction moves and changes to the supporting cable messenger without any disruption to the integrity of the fiber optic cable.
 2. Two types of FSEs shall be provided under this Contract. Type I shall be a galvanized steel NEMA 3r enclosure, wall mounted, and shall be used for all subway installations. Type II shall be a fiberglass or ABS plastic NEMA 3R enclosure, pole mounted or mounted on the elevated structure, and shall be used for all outdoor installations. The FSE's shall provide for weatherproof entry and exit of cable and innerduct from the sides and the bottom of the FSE.
 3. FSEs shall be sized to accommodate a minimum of 300 feet of cable slack within the enclosure, stored in a manner that does not exceed the minimum operational bending radius of the cable at any time, however the enclosure shall not be less than 36H x 20"W x 8"D.
 4. FSEs shall have provisions for entrance of the fiber optic innerduct, including compression fittings, seals, and other incidentals required for proper installation of the innerduct. The FSE shall be designed such that the cable can be released and uncoiled from the enclosure via the front of the enclosure.
 5. The splice enclosures installed within the CTA Subways shall be manufactured of non-combustible, low smoke, halogen free materials. Stainless Steel Slack Enclosures are acceptable for the Subway installations.
 6. The outdoor installed Fiber Slack Enclosure shall be Siecor model CEN-002 or CEN-P02, or engineer approved equivalent.

2.07 FIBER OPTIC INNERDUCT

- A. The innerduct shall be provided with an integrated Figure-8 messenger cable capable of self-supported suspension between poles, or supported from the elevated tramway structure.

- B. The innerduct installed along the Kennedy X'Way and the Elevated Structure R-O-W shall be a flexible high-density polyethylene duct manufactured in accordance with NEMA Standards Publication No. TC7 and ASTM D3485. The innerduct installed within the CTA Subways shall be manufactured of non-combustible, low smoke, halogen free materials.
- C. The high-density polyethylene shall be of Type III, Grade P34, Class B or C, Category 5, in accordance with ASTM 01248.
- D. The resin utilized in the manufacture of the duct system shall meet or exceed ASTM standards.
- E. The nominal outside and inside diameter of the duct shall be 1.660", and 1 .394", respectively.
- F. The ends of the duct shall be sealed to prevent the ingress of dirt or moisture.
- G. The minimum crush resistance shall be 4203 N/rn.
- H. The maximum pulling tension shall be 4448 N.
- I. A permanent marking shall be employed on the outside of the duct, which shall show the date of manufacture and the Manufacturer's name. A numerical sequence shall be marked on the outside of the duct, at intervals of five feet, to facilitate determination of duct length and amount of duct remaining on the reel. The words 'FIBER OPTIC CABLE CHICAGO TRANSIT AUTHORITY' shall be permanently imprinted along the duct at fifteen foot intervals. All markings shall be in English.
- J. The duct shall be black in color and have UV radiation, protection. The inside of the duct shall have a permanent silicon emulsion pre-lubrication.
- K. The duct shall be provided with a pull rope installed.
- L. The innerduct shall be suitable for all installation methods described herein and in the ContractDrawings.
- M. The integrated messenger shall be made up of 7-strand, galvanized steel, with a total diameter of ¼". The messenger shall have a breaking strength of not less than 10,000 pounds. The nominal webbing height and width for the integrated messenger shall be .125", and .060" respectively.
- N. In subway installations, 1-1/2" galvanized rigid steel conduit with stainless steel hardware shall be used in place of the Figure-8 innerduct, as shown on the Contract Drawings.
- O. The X'Way and Elevated Structure R-O-W fiber optic innerduct shall be Duraline F8A-1 25-66, or engineer-approved equivalent.

2.08 Messenger Wire

- A. A messenger wire for supporting cables shall be provided in the Subway segments and along the Elevated R-O-W. Messenger wire shall be high-tensile strength, seven strand, copper clad, 30 percent HS-7W messenger in accordance with AAR Signal Specification 10.3.10 for Copper Covered Steel Guy and Messenger Strand. The Contractor shall determine the diameter of the messenger required for the cables and innerduct proposed, and the messenger diameter shall not be less than 5/16 inch diameter.
- B. Messenger brackets and brackets and hardware shall be galvanized steel in accordance with these specifications.
- C. Suspension clamps shall be galvanized steel, three bolt type, Joslyn J-931 or approved equal.
- D. Messenger hangers shall be galvanized steel, Hubbard No. 8911 or approved equal.
- E. Cable support straps for messenger mounted cables and innerducts shall be those as manufactured by 3M or approved equal.

2.09 GROUND LEVEL CABLE CHANNEL SYSTEM

A cable channel system suitable for ground level surface mounting shall be provided along the Kennedy X'Way R-O-W segment. The cable channel system shall be made of high density polymer concrete (HDPC), be of 2-piece construction manufactured in 3 meter (9'10") lengths. The channel with removable top shall provide a protectable linear enclosure for cables and shall also serve as a footwalk adjacent to and along the X'Way tracks. The exterior width shall be a minimum of 24 inches wide, which is the minimal width requirement for a footwalk along the CTA Rapid Transit tracks. The surface mountable cable channel system shall be Plastibeton Channel System as manufactured by SYNERTECH Moulded Products or approved equal.

2.10 EQUIPMENT RACKS

- A. Equipment racks shall be floor mounted type with EJA-3 10 Standard 1 -3/4 spaced single side drilled mounting holes. Racks shall be sized to accommodate the Contractors proposed equipment.
- B. The rack support channels shall be of sixteen (16) gauge (minimum) steel.
- C. The rack base shall have a minimum depth as shown on the Drawings. Each rack shall be furnished with shock mountings to prevent vibration damage to the equipment. Contractor shall provide all hardware for securing the rack to the floor, walls or ceiling.
- D. Each rack shall be finished in gray enamel.

2.11 INSTALLATION HARDWARE

- A. It is the intent of these specifications that the main the cable runs shall consist of both the fiber optic cable (in innerduct w. messenger) with separate "J" hooks on a common bracket. This can be accomplished with the use of the typical hardware as shown on the plans.
- B. The plans shown various standard CTA installation hardware details for use by the Contractor in developing the installation drawings. The Contractor will develop details and plans for the installation of the fiber/copper cables and submit them for approval prior to starting work.

Appendix C-2 CDOT Freight Tunnels

Requirements for Submittals to the Chicago Department of Transportation Bureau of Inspections Quality Assurance Division

for Work to be Performed in the Chicago Freight and Trolley Tunnel Systems

All submittals to the Chicago Department of Transportation, Bureau of Inspections, Quality Assurance Division (“CDOT”) for work within the Chicago Freight and Trolley Tunnel Systems shall conform to the following minimum requirements. Questions regarding these requirements shall be directed to Mr. Manohar Chawla, Quality Assurance Division at (312) 744-3530.

A. DRAWINGS

1. All drawings shall be of a single size, either 11-inch by 17-inch or 24-inch by 36-inch, bound together on the short side.
2. All drawing submittals shall have a cover sheet with the following information:
 - a. Project name;
 - b. Project address and site location map;
 - c. Name, address and phone number of project owner;
 - d. Name, address and phone number of project engineer;
 - e. Name, address and phone number of contractor (if applicable);
 - f. Names of the principal design professional(s) for each professional design firm used on the project;
 - g. All applicable codes utilized on the project;
 - h. Index of all drawings;
 - i. Seal(s) and signature(s) of the responsible design professional(s) along with the expiration date of the license;
 - j. Indication as to which of the indexed drawings the seal applies; and
 - k. Registration number of the professional design firm.
3. The title block and border of each sheet of the drawings shall contain the following information:
 - a. Project name and location;
 - b. Name and address of the licensee(s) responsible for preparation of the documents;
 - c. Name of the professional design firm(s) and the firm’s registration number;
 - d. Signature of the project manager;
 - e. Date of issuance of the drawings;
 - f. Graphic and written scale;
 - g. Drawing title;
 - h. Drawing number; and
 - i. Revision block with appropriate revision number and revision date.
4. All drawings submitted for work within the freight or trolley tunnels must be stamped and signed by a Registered Professional Engineer licensed in the State of Illinois.
5. All drawings submitted for work within the freight or trolley tunnels which show structural modifications to the tunnels, including penetrations of the tunnel liner, construction of bulkheads and similar activities must be stamped and signed by a Registered Structural Engineer licensed in the State of Illinois.
6. Unless otherwise indicated, the drawings shall comply with the requirements of the *Manual for Code Enforcement Officials and Design Professionals*, as promulgated by the State of Illinois, Department of Professional Regulation, April 1995.

B. CALCULATIONS

1. All submittals for activities within the freight or trolley tunnels which involve structural modifications to the tunnels, including but not limited to penetrations of the tunnel liner in excess of 18-inches, bulkheads, pilasters, and the support of conduits designed to carry liquids or gases, shall supply structural calculations which support the details shown on the drawings.

2. All submittals for the installation of electrical and mechanical equipment, including but not limited to pumps, fans, lighting, and electrical distribution equipment, shall include calculations which support the details shown on the drawings.
3. All calculations shall be submitted on 8 1/2-inch by 11-inch paper, printed on one side only and separated by project feature or engineering discipline.
4. The cover sheet of all structural calculations shall be signed and sealed, and shall show the expiration date of the license, by a Registered Structural Engineer licensed in the State of Illinois. The cover sheet of all other calculations shall be signed and sealed, and shall show the expiration date of the license, by a Registered Professional Engineer licensed in the State of Illinois.
5. In addition to the required seals and signatures, the cover sheets of all calculations shall include the following information:
 - a. Project name;
 - b. Project address;
 - c. Name, address and phone number of project owner;
 - d. Name, address and phone number of project engineer;
 - e. Name, address and phone number of contractor (if applicable);
 - f. Names of the principal design professional(s) for each professional design firm used on the project;
 - g. All applicable codes utilized on the project;
 - h. Index of all calculations; and
 - i. Registration number of the professional design firm.
6. The title block of each calculation page shall at a minimum show the following information:
 - a. Name of the project;
 - b. Project feature covered by the calculations;
 - c. Name of the design professional responsible for the calculation;
 - d. Name of the design professional responsible for checking the calculation; and
 - e. Name of the professional design firm.
7. Unless otherwise indicated, the calculations shall comply with the requirements of the *Manual for Code Enforcement Officials and Design Professionals*, as promulgated by the State of Illinois, Department of Professional Regulation, April 1995.

C. PRODUCT SUBMITTALS

1. Copies of manufacturer's data for all commercial products used in the tunnel construction shall be submitted along with any applicable drawings and calculations.
2. All manufacturer's data shall be submitted on 8 1/2-inch by 11-inch paper, printed on one side only and separated by dividers between different products. Photographic reproductions of manufacturer's brochures and other information are preferred to maintain a consistent format to the submittal.
3. Manufacturer's data shall clearly indicate the following information:
 - a. Manufacturer's name, address and telephone number;
 - b. Model number of product;
 - c. Product nominal size, overall dimensions, and materials of manufacture;
 - d. Applicable standards or certifications to which the product is manufactured, such as ASTM, ANSI, and NEMA; and
 - e. Applicable product ratings such as allowable operating pressure, electrical rating, and output capacity.
4. The manufacturer's data shall be submitted with a cover sheet which shall include the following information:
 - a. Project name;
 - b. Project address;
 - c. Name, address and phone number of project owner;
 - d. Name, address and phone number of project engineer;
 - e. Name, address and phone number of contractor (if applicable); and
 - f. Index of all product submittals.

D. CDOT SUBMITTAL COVER SHEET

1. All submittals shall be accompanied by a completed *CDOT Chicago Freight and Trolley Tunnel Systems Submittal Cover Sheet*, a copy of which is attached to these requirements. All requested information on the cover

sheet must be completed, and the completed cover sheet must accompany the submittal of the drawings, calculations and product data.

2. The completed cover sheet with four (4) complete sets of the submittal shall be provided to the Quality Assurance Division at the following address:

Chicago Department of Transportation
Bureau of Inspections, Quality Assurance Division
30 North LaSalle Street, Suite 1101
Chicago, Illinois 60602

Attention: Mr. Manohar S.S. Chawla, P.E. Coordinating Engineer

Appendix C-3 CDOT Duct Space

Approval Process for Proposed Installation in City Tunnels

Before installation of communications cable in the tunnels can take place, the following must be obtained in the order indicated:

1. Approval by the Commissioner of Public Works of the types and methods of cable installation.
2. A permit from the Department of Public Works (CDPW, Construction Authorization and Inspection (Permits) Division), is required to use of any public thoroughfare during the course of installation.
3. A permit from the Department of Inspectional Services, Electrical Inspection Section.

All required submittals must be sent to:

Manager, Bureau of Telecommunications
Department of General Services
30 North LaSalle Street - Suite 3700
Chicago, Illinois 60602
Phone: 312-744-7754

Copies of the letter transmitting the submittals must be simultaneously distributed to the Commissioner of General Services at:

Commissioner of General Services
Department of General Services
30 North LaSalle Street - Suite 3700
Chicago, Illinois 60602

The Bureau of Telecommunications will be the clearinghouse for all Department of General Services (DGS) internal reviews. All questions or comments regarding DPW's review must be directed to the DGS.

Depending on the type and location of cable installation, review of the submittals may be conducted by:

- Electrical Design Section
- Utilities Design Section
- Structural Design section
- Bureau of Electricity
- Street Division
- Bridge and Viaducts Division
- Other City departments, public agencies, utilities. Etc., with equipment near the proposed installation.

During the implementation process the time it takes to complete the review process will depend upon 1)the completeness of the required submittals, 2)the extent and complexity of the proposed installation, and 3)the extent to which installation guidelines and requirements have been followed. At the conclusion of the initial review, OT will either forward the proposed installation to the Commissioner for review and approval or inform the submitting firm that some aspect of the installation is unacceptable. Upon review and approval by the commissioner, the installing firm will be so informed by official transmittal of approval subject to any conditions.

Board of Underground Work of Public Utilities of Chicago

Plans of cable installations under streets or other public way where utilities are located must also be reviewed by members of the Board of Underground Work of Public Utilities of Chicago. A cover letter which requests review of the plans and encloses 24 copies of the plans must be submitted to:

Secretary, Board of Underground
320 North Clark Street - Room 300A
Chicago, Illinois 60610
Phone: 744-7295

The Secretary will circulate the plans to Board members for review, who will submit their comments regarding the proposed installation to the Secretary, who will then forward the comments to the installing company. (This process is not required for installations in the freight tunnels.) The approval of the Commissioner of General Services will not be given until evidence has been submitted that this review process has been completed. Commonwealth Edison has electrical

equipment in some segments of the freight tunnels, so firms proposing to install communications cable in these segments must coordinate their plans and installation with Commonwealth Edison.

Department of Public Works/Permit for Temporary Use of Public Way

An installing firm is required to obtain a public way permit from the Department of Public Works if some portion of a public thoroughfare (street, alley, sidewalk, etc.) will be used temporarily during the installation. Such a permit will be required to install cable under the street, or to install from the street a cable on a private or public bridge or viaduct. This permit is not required for installation in the freight tunnels unless a public thoroughfare will be used to store equipment or reach the tunnels (e.g., through a manhole). The permit establishes the conditions for use of the public way. The permit normally involves a small fee and/or deposit and performance bond. Depending on the condition and terms of the licensing permit, the performance bond may be waived. Information regarding this permit and permit applications can be obtained from

Director, Construction Authorization and Inspection Division
Department of Public Works
Room 802 - City Hall
Chicago, Illinois 60602
Phone: 312-744-4652

No public way permit will be issued until the proposed installation has been approved by the Commissioner of General Services.

4. Department of Inspectional Services/Electrical Permit Chapter 88, Section 770 of the Chicago Municipal Code establishes minimum safety standards for installation and use of fiber optic cables. Installation of communications cable in the public way and on private property requires a permit and inspection. The fee for this inspection will be approximately \$30 per hour, per inspector. Information regarding this permit and permit applications can be obtained from:

Chief Electrical Inspector
Electrical Inspection Section
Department of Inspectional Services
Room 803 - City Hall
Chicago, Illinois 60602
Phone: 312-744-3460

This permit will be issued only to electrical contractors licensed with the City of Chicago and only after the other approvals and permits have been obtained. Chapters 86, 87, and 88 of the Municipal Code covers the enforcement of electrical regulations, including the registration of electrical contractors and permits.

Installation of Cable

Supervision of cable installation in the freight tunnels will be done by the DPW Bureau of Construction - Operations Division, which is responsible for maintenance of the freight tunnels. The installing firm must coordinate the data and times of any tunnel preparatory work or installation with this Division. Entry to the tunnels is not permitted without prior notification of the Operations Division. Normally, a staff member of this Division will be present when representatives of the installing firm are in the tunnels.

Public way inspectors (Permits Division) will supervise cable installations in street right-of-way.

It is the responsibility of the installing firm to inform the OT and owners/operators of facilities (e.g., electric power, natural gas, other communication cables) located near the proposed installation of the specific dates and times of the installation. To insure this, installing firms are to communicate the dates and times of the installation to at least the following:

- Manager, Office of Telecommunications
- Chicago Utility Alert Network (312-744-7000)

Equipment Installation Guidelines and Requirements

Approval of the installation plan and procedures will occur most quickly if the guidelines and requirements presented below are adhered to. Exceptions to the rules will be considered, but will require supportive documentation.

1. Type of Cable and Conduit

The type and material make-up of communication cable and conduit are covered by the Chicago Electrical Code. Questions regarding this code should be addressed to the Electrical Inspection Section of the Dept. of Inspectional Service. For fiber optic cable note the following requirements and guidelines:

- Fiber optic cables of the non-conductive type (no electrically conductive materials) which are not subject to mechanical injury do not require a conduit or raceway in the freight tunnels. Other installations shall require a conduit (e.g., under the street, in plenum areas).
- To guarantee the safety and security of the cable, installing the cable in a conduit is recommended, and in some applications will be required (see Chapter 86, Section 770 of the Municipal Code).
- Non-metallic conduit is not recognized by the Municipal Code for use in the tunnels. Rigid, non-metallic conduit can be used where buried under streets and other areas permitted by Chapter 87, Section 347.2.
- As the freight tunnels are subject to periodic flooding, cable and equipment shall be waterproof.
- All equipment must be clearly identified as to the responsible firm.
- All installations shall comply with the provisions of Chapter 68, section 770 of the Chicago Electrical Code.

2. Location of Cable in Tunnels

The standard tunnel is 6'-0" by 7'-6". Cables are to be placed in the tunnels so as to minimize the loss of vertical and horizontal clearance disruption to existing uses, and inconvenience to future users. Installation guidelines and requirements are as follows:

- Position cable at least 5 feet from the floor of the tunnel. Avoid installation directly overhead.
- Maximize the distance between the cable (or cable-carrying conduit) and existing electrical plant.
- This can be achieved by putting the cable on a wall or ceiling which does not have such an installation.
- Minimize the distance between existing fiber optic cable and new cable. Installing firms are encouraged to share cable or conduit holders/frames.
- Place the cable in the same relative position throughout all tunnel sections. The distance from the floor to the cable should be approximately the same in all tunnel sections.
- Minimize the distance from the edge of the tunnel surface and the nearest edge of the cable or conduit.

3. Attachment of Cable/Conduit to structures

Most of the tunnels are 75 years or older. They consist of non-reinforced concrete approximately 10 inches thick. Although they appear structurally sound, the cable installation shall minimize the stress placed on the tunnels. These guidelines and requirements apply to cable attachment:

- The cable/conduit holder or support must be anchored to the tunnel by drilled screws. The "shooting" of anchors into the tunnel or other public structures is not permitted.
- Cable must be supported every 10 inches and conduit of intervals not to exceed 7 feet.
- Cables shall not be attached to or tied to raceways or pipes as a means of support (see 88-770.Sb of the Municipal Code).
- The cable/conduit holder should allow for the addition or replacement of cable/conduit without the replacement or addition of anchors.

4. Tunnel Improvements and Modifications

Tunnel improvements which will insure the safety and security of the installing firm's employees and equipment are required and are the responsibility of the installing firm. Firms are required to make tunnel improvements in order to meet the guidelines and requirements presented in this document. For example cable installation on the ceiling will require the removal of ceiling planks, anchors, etc., which formerly held electrical cable.

The installing firm must make every effort to minimize the routing of the cable conduit through tunnel walls to reach buildings, etc. Where this is unavoidable, the tunnel must be properly sealed to prevent seepage of water into the tunnel.

The installing firm must hire a structural engineer registered with the State of Illinois to inspect the tunnel sections which will be occupied by the installing firm and issue a report indicating the repairs that are needed to guarantee the integrity of the tunnels and the safety of tunnel occupants and equipment.

Submittal Requirements

Three (3) sets of the following documents and materials must be submitted to the Commissioner of Public Works to the attention of the:

Head of the Utilities Design Section
Bureau of Engineering,
Room 700
320 N. Clark Street
Chicago, Illinois 60610.

- S Routes or locations of all cable and other equipment.
- S Number of cables in each occupied section of the public way.
- S Number of fiber optic pairs in each cable.
- S Number distance, and capacity of each fiber optic pair.
- S Maps or drawings to scale illustrating exact locations of cable or other equipment in the public way (e.g., on tunnel wall or ceiling).
- S Specifications of the fiber optic cables and raceways or conduits which will carry the cable.
- S Description of the method of attachment of the cable to the tunnel or other structures (e.g.,bridges,viaducts).
- S Specifications and material make-up of all other physical plant to be placed permanently in public way.
- S Points and methods of entry of cable to freight tunnel sections (from buildings or other public way).
- S Methods and procedures to be used in installing all equipment. This must address how workers and equipment will be brought into the public way and how cable or raceway anchors will be attached to tunnel structure.
- S Locations and descriptions of proposed tunnel modifications and preparatory work.
- S Means of cable identification.
- S Construction schedule. Procedures for monitoring and maintaining installation.
- S Report of an Illinois licensed structural engineer (see Section C.4 of this document).
- S Evidence that plans have been submitted to the Board of Underground and are acceptable.

Appendix D: Current Voice/Data/Video Features

Current Voice/Data/Video Features

Telephone Network Reliability

- r. The proposed network must be able to suffer a major outage, such as a cut in a transmission link or the complete failure of a single switch node, and still be able to provide service to all major facilities served by any node. The affected node may experience some reduced traffic capacity.
- b. The network must be flexible enough to automatically, without human intervention, redirect station and trunk assignments in order to reroute traffic when there is a system outage or failure.
- c. Alarm procedures must be enacted for the outages including the smallest or lowest level of equipment that triggers an alarm when an outage occurs.
- d. Failure of any single switch hardware component should not disable more than 50 stations or 10 trunks.
- e. The transmission design must employ duplication to ensure that the disabling of any single transmission card will not disable more than 24 voice channels.

Telephone Network Expansion capacity

The portion of the network servicing the City, Parks, and Schools should be capable of expansion to 60,000 voice and/or data ports by modular addition without replacement of equipment already purchased or leased.

Telephone Network Traffic Capability

The switching processors must be capable of handling traffic of 6CCS/voice port and 30CCS/data port and must support trunk and tie line connections. These should apply to each of the nodes and to the switching network as a whole. They should also be capable of modular expansion to sort 45,000 voice ports at 6CCS/line, 12,500 data ports at 30CCS/line, and 2,500 trunk connections at 30CCS/trunk. Blocking in the system shall not exceed P.01.

Telephone Network Routing Plan

- a) Internal calls must be routed within the proposed CNW network at a grade of service of no less than P.01.
- b) The primary route of a call from a CNW station to the public switched telephone network (PSTN) must be via a trunk connected to the nearest node, unless another configuration is more cost-effective when taking MSA-I charges and other factors into account.
- c) The alternate route of a call from a City station to the PSTN should be via a trunk connected to the next available node using the least amount of transmission facilities.
- d) If so assigned, the switch should be able to route outgoing calls to the PSTN from any station in the network to the C.O. nearest the location for which the call is destined.
- e) The proposed numbering plan should reuse all seven digits of the current numbering scheme, given the advent of number portability.
- f) The routing plan should be similar to the following digit dialing assignments:

"0"	for CNW operator
"9"	for out-going local via least cost routing.
"9-1"	for out-going long-distance via least cost routing.
"2, 3, 4, 5, 6, and 7"	for 5-digit dialing intercom.
"1" or "8"	for feature activation.
"*" or "#"	for authorization codes.
- g) Use of more than five digits for intercom calling is not acceptable.

- h) It should be possible to route incoming internal and external calls differently, e.g., intercom calls routed to a message center and PSTN calls to voice mail.
- i) The switching network must be capable of routing emergency calls from locally restricted stations (i.e., no "9" dialing permitted) to 911.
- j) The CNW network Database must be capable of interfacing with the CLI database of Ameritech.
- k) The following dialing plan should be required for internal 911 calls when dialing 9-1-1 or 9-9-1-1, the caller will access the 9-1-1 Communication Center at the Police Department.

Telephone Network Voice Features

The City either requires or desires many voice features commonly available in current telecommunications networks. To assist vendors in preparing responses these features have been divided into two groups, required and desired. These features must be available throughout the entire network.

- **Required Telephone Network Features**

- a) System

1. Area/office Code Restriction
2. Authorization codes
3. Automatic Route selection (ARS)
4. Automatic Station Release with Howler
5. Class of Services
6. Data Privacy
7. Data Restriction
8. Direct Inward Dialing
9. Direct Outward Dialing
10. End-to-End Station DTMF signaling
11. Hot Line Stations
12. Hunting (Circular, Secretarial and Stations)
13. Multiple Trunk Groups
14. Paging Access
15. Speed Calling (System)
16. Station Message Detail Recording
17. Direct T1 Carrier Access

- b) Attendant

1. Alphanumeric Display
2. Attendant Camp-on
3. Attendant Conference
4. Deleted
5. Attendant Emergency Access
6. Attendant Trunk Group Busy Lamps
7. Automatic Hold
8. Automatic Loop Release
9. Automatic Recall
10. Busy override
11. Busy Verification
12. Class of Service Override
13. Message waiting
14. Multiple Console Operation
15. One-way Splitting
16. Serial Call
17. Trunk Busy Verification

- c) Station

1. Automatic Ring-back on Hold Call
2. Call Forwarding - All Calls
3. Call Forward - No Answer
4. Call Forward Busy
5. Call Forward Outside System

6. Call Hold
7. Call Pickup
8. Call waiting
9. Consultation Hold - All Calls
10. Dial Intercom
11. Individual Transfer - All Calls
12. Industry-standard Off-premises Stations
13. Speed Calling (Individual)
14. Station Message Waiting

- **Desired Features**

- a) System

1. Account Code Capability
2. Discriminating Ringing
3. Direct Inward System Access
4. Emergency Access
5. Intercept Treatment - recorded Announcement
6. KSU Facilities
7. Night Service
8. Outgoing Trunk Camp-on
9. Outgoing Trunk Camp-on Priority
10. Property Management Interface
11. Specific Call Blocking - System
12. Station Transfer Security
13. Tandem Trunking
14. Time of Day Routing
15. Wide Frequency Tolerant Power Supply

- b) Attendant

1. Attendant Direct Paging Access
2. Attendant Function Prompting
3. Attendant Locked Loop and Loop Transfer
4. Attendant Overflow Facilities
5. Attendant Repertory Dialing
6. Call Forwarding Source Display
7. Call Waiting Source Display
8. Console Answering Priorities
9. Extended Call Status
10. Incoming Call Identification
11. Intercept Treatment - Attendant
12. Radio Paging Interface
13. Secretarial Intercept

- c) Station

1. Add-on Conference (Up to 6 Conferees)
2. Automatic Intercom
3. Call Forward - Group
4. Last Number Radial
5. Selective Call Acceptance
6. Station Forced Busy

The Digital Network Infrastructure and Metropolitan Chicago

[See www.it.nwu.edu/metrochicago/intro/htm]

CHICAGO TECHNOLOGY ACTION PLAN

[See City of Chicago Website www.chicagotechtoday.com]

“Civic Net: Tomorrow’s Internet Today”

City Information Technology Infrastructure Subcommittee Report:

August 9, 1999
Final Draft

Members

Chair

Joel Mambretti, Northwestern University

Co-Chair

Scott Goldstein, Metropolitan Planning Council

City Staff

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A. Scope of Subcommittee

The City Infrastructure subcommittee was established to address issues related to the information technology infrastructure of the City of Chicago. These issues include recommendations for an information technology that will contribute to the vision and goals of the City of Chicago. These issues focus on the creation of a new civic network, or “Civic Net.” Civic Net will provide enhanced City services to all of its citizens and will assist in enhancing digital communications for public and private sectors and eventually to all citizens, businesses and government agencies within the City and connect to networks throughout the metropolitan region, the nation and globe. The network will be supported by digital infrastructure, that will include fiber, wireless communications, connectivity components and related facilities.

The subcommittee reviewed the existing assets and problems facing the City and developed recommendations for several short and long term model projects that reach government, neighborhood and business uses. The efforts of this committee primarily focus on infrastructure that ends “outside the walls” of buildings, with an understanding that the overall technology architecture within must inter-operate with the external network infrastructure. Also, the scope of the committee’s charter does not include legal and regulatory issues, which need further investigation as the projects move toward implementation.

B. Vision

The City of Chicago will lead the metropolitan community in designing and deploying an information technology infrastructure required for progress in the 21st century. This infrastructure will enhance the lives of all its citizens, improve the delivery of government services, mitigate the digital divide and stimulate the development of business in the digital economy. This technology infrastructure will be appropriate for the needs of the entire city, adaptable to dynamic change, readily accessible, and financially viable.

C. General Goals

1. Ensure that the citizens and businesses of Chicago have access to an information technology infrastructure appropriate to meet their requirements.
2. Ensure an appropriate policy framework exists to achieve this goal.
3. Ensure that an appropriate technology infrastructure development process exists.
4. Provide for a strategic plan for a development and deployment process that will ensure an information technology infrastructure that has an open architecture and is standards-based, manageable at all technical layers, rapidly deployable, scalable, expandable, and cost effective.
5. Develop plans and processes which provide appropriate integration with regional, national and global networks
6. Develop Pilot Projects/Prototypes as proof of concept, for each of three major constituencies: consumers, business, and government service

D. Problem Statement

There are three interrelated problems addressed by the City Infrastructure Subcommittee: 1) there is a high payoff to investing in technology to spur economic and community development in the City of Chicago; 2) there is currently a multitude of individual efforts by many city agencies that are beyond the core mission of these agencies to plan for, operate, manage and maintain technology infrastructure; 3) there is a lack of city services available online for citizens and businesses. The Subcommittee set out to develop an approach to address these three problems by recommending a series of short term steps to fundamentally begin addressing these three problems. The Subcommittee also identified minimum amounts needed for the feasibility and early implementation phases of some of the short term initiatives.

E. Short term Initiatives

- #1 The City of Chicago should pursue a common “CivicNet” infrastructure and develop procedures for coordinating all information technology infrastructure improvement plans and implementation. The City would create enormous efficiencies in jointly pursuing a common architecture and shared usage to the maximum extent possible, among all City agencies, Chicago Public Schools, City Colleges, Park District and others. While certain agencies will have specific needs, the benefits of joint purchasing and usage are tremendous. A common shared system, supplemented, as necessary by individual departments, should be factored into capital investments. The joint meetings of CIO’s that has begun is an important first step toward this goal.

The City of Chicago can develop applications for Civic Net to provide many government services on-line to meet the needs of citizens and businesses. Prototype applications for city services would demonstrate how the Civic Network will make City services more accessible, easier to use, and more informative. Different City departments could have their own channels. These channels would provide general information, for example, information on city services, and specialized information, such as the City’s Y2K plan, building data, traffic data, and RFPs. Part

of this effort would involve an initiative to coordinate City websites. In addition, the channels will provide interactive multimedia information.

Lead agency: Business and Information Services

Other participating agencies: All City agencies, Chicago Public Schools, City Colleges, Park District and others.

Timeframe: Feasibility study and first phase of implementation of Civic Net infrastructure by December, 1999.

- #2 With appropriate partners, the City of Chicago should establish a strategic process, optimized for success and rapid progress, to develop the common "CivicNet~ infrastructure with appropriate resources to provide for several key design objectives: 1) Civic Net should be designed as a next-generation Internet, to ensure that it provides for tomorrow's requirements as well as today's needs. Because some elements of information technology infrastructure required for the new digital economy will not be found among common communication service offerings, it will be important for the City to precisely specify its requirements to ensure that the appropriate technology will be implemented. 2) Although, Civic Net will provide for the needs of all constituencies, it will not have common characteristics in all locations, e.g., it will consist of high performance core (foundation) components as well as access facilities. Civic Net should first be deployed in areas where there is a potential for high/gain impact in the near term 3) Civic Net should be managed by the City, but not necessarily owned by it. The City should outsource as many lower network layers as possible without compromising functionality or flexibility. 4) The City should move from a "service purchasing" model of dealing with communications services providers to a model based on partnership, so that all parties can progress toward mutually beneficial goals. Existing innovative partnership models can be guides. 5) Investments should be optimized by a) taking advantage of technology trends such as convergence, b) leveraging demand and City resources such as rights of way c) by eliminating artificial barriers related to infrastructure development. 6) A location should be established for experimenting, testing, evaluation, and showcasing advanced networking capabilities and new services. This facility will be used to develop methods of proving concepts, rapid prototyping and early deployment.

Lead agency: Business and Information Services

Other participating agencies: All City agencies, Chicago Public Schools, City Colleges, Park District and others.

Timeframe: Requirements Definition and Technology Specification of Civic Net infrastructure by December, 1999

Estimated cost for first phase of implementation: \$300,000

- #3 The City of Chicago should immediately leverage near-term infrastructure installations. Presently, cable and telephone companies are making major infrastructure upgrades or new facilities in the City of Chicago. The City should ensure that these investments are leveraged and create access points for community web centers immediately, as centers for economic and community development. Immediate steps can be taken to create showcase examples of technology at the neighborhood level, as demonstrations for the steps that need to be taken in Short Term Initiative #4.

Lead agency: Business and Information Services and the Office of Cable Communication

Supporting agency: Chicago Department of Transportation, Department of Planning and Development

- #4 Neighborhood web centers with access to broadband Internet in close proximity to all citizens of Chicago by linking up all libraries, schools, police stations and park district facilities and many community-based providers throughout the City of Chicago. For example, this prototype may provide for advanced capabilities for interactions among groups with common interests City-wide. Plans are already underway for Chicago Public Schools, the Police and Chicago Public Libraries. These public sites can be supplemented by the CHA and Park District. The goal is clear: to have high speed public access available at convenient locations throughout the City. The Department of Planning and Development should do an analysis of all of these City-controlled sites and determine the overlap and gaps.

Three showcase sites with state-of-the-art technologies should be selected to model this project. To kick-start the process, workshops should be held that galvanize communities in support of technology uses this Fall. The City should work in partnership with major community organizations and institutions to help plan for and host successful events. By making major upgrades in technology, community services such as teaching 3-5 year olds how to learn music and play the keyboard at the Pilsen organization El Valor can serve as models for the rest of the community and demonstrate the benefits of technology. The City should also demonstrate latest efforts to the community toward the deployment of "CivicNet." For example, CDOT can demonstrate intelligent transportation system technology at these workshops. Communities such as Bronzeville, Pilsen and others should be evaluated as possible showcase communities.

The three showcases should demonstrate both the community-level capabilities of the site and the potential e-commerce business uses at the neighborhood level.

In addition, the City of Chicago should use its contracting resources with non-profit service providers to expand community access in private facilities. There are already a number of strong programs and national examples in Chicago. These programs should be supported and expanded to serve residents throughout the City that may not be able to afford access to Internet, and need training to fully take advantage of the technology. Possible sites include: El Valor, Erie Neighborhood House, Street Level Youth Media (three locations, west, south and north), Humboldt Park Vocational Center, IIT/Urban League on State Street, Charles Hayes Family Investment Center, James Jordan Boys and Girls Club, Holy Trinity High School, Northwest Tower, Senior Net sites of the Chicago Department of Aging, and New Galilee.

Lead agency: Planning and Development

Other participating agencies: Transportation, Chicago Public Schools, Park District, Libraries, Police and all agencies contracting with non-profit service providers

Timeframe: 3 Showcases should be rolled-out over from October, 1999 to March, 2000. and a second rollout of additional neighborhood sites by October, 2000.

Estimated cost: \$300,000

- #5 The City of Chicago needs to inventory all public and private infrastructure in the City of Chicago. It is important to understand where the City's highest priority needs are for CivicNet, currently and in the future. Consequently, the City's office of Business and Information Services ("BIS") will conduct studies to determine where infrastructure currently exists and where the areas of greatest need are.

In addition, a legal analysis needs to be undertaken to determine the City's access to these infrastructure systems. This step needs to include rights-of-way, cable systems, telephone lines and other systems in which the City has a right to use of these infrastructure systems.

Another focus could be on trends in current deployment of broadband digital communications and the number of new buildings that have advanced infrastructure. It would be useful to identify and examine the various technologies companies are currently deploying, and how many and what types of smart buildings are being developed. It will also be important to identify and understand the existing and potential barriers to the optimal deployment of infrastructure required for CivicNet. A major benefit of this inventory will be to spin off economic development opportunities by providing accurate, up-to-date information for businesses seeking to locate in Chicago or seeking to expand their technology infrastructure needs.

Lead agency: Business and Information Services

Other participating agencies: Planning and Development, Transportation, Chicago Public Schools, Libraries

Timeframe: End of 1999

- #6 The City of Chicago should create "Digital Business Express," an extension of Business Express. The purpose would be to provide businesses with a one-stop shop for all information technology needs, such as where fiber is located that a prospective business could tap into. Over time, the City will transact business with its citizens through Digital Business Express. A second Digital Business Express will be developed that will focus on the needs of transportation constituencies.

Lead agency: Business and Information Systems and Chicago Partnership for Economic Development

Other participating agencies: Planning and Development, Transportation

Timeframe: March, 1999

Estimated cost: \$200,000

- #7 The City of Chicago should enrich its economic development policy by establishing a business unit for technology related economic development determining three priority technology business areas (such as TIP districts and Industrial Corridors) to plan for and market specifically for technology uses. The City of Chicago should strategically market three areas for technology related economic development. The area around the Illinois Medical District, for example, could be targeted for biotechnology companies. Furthermore, a section of the City focused on back-office operations, accessible to transit and workers would be highly desirable. Last, a high-tech manufacturing zone should be selected. Areas specifically planned for and marketed for uses such as biotechnology, back office, consultant firms, and high tech manufacturing will make it easier to offer higher level services for lower cost as a method to attract economic development.

Lead agency: Planning and Development

Other participating agencies: Business and Information Systems

Timeframe: Analysis by October, 1999

- #8 Transportation Integration: Freight communication hub. The freight industry contributes more than \$8.7 billion to the Chicago region's economy. With over 114,000 employees and payroll of over \$3.2 billion (1996 figures from CATS), the impact of the industry is pervasive. Chicago is home to 28 different intermodal facilities. We are, unquestionably, the nation's largest freight hub, and the region is third busiest in the world, after Hong Kong and Singapore.

Yet Chicago's edge may be slipping. Rail freight interchanges at bottlenecks are still, amazingly, done manually. The most serious impediment is the intermodal freight transfer system between rail, trucks and containers. The transfer is usually completed by a switching carrier, such as Belt Railway Company of Chicago (BRC) or the Indiana Harbor Belt Railway (IHB). The increasing congestion of rail and highway modes in the Chicago Terminal District has reached major delays of up to 48 hours to switch lines.

Other U.S. cities, including Los Angeles and Kansas City, have already taken leadership in implementing major improvements to their freight systems.

A variety of improvements are necessary for improving the efficiency of rail and intermodal freight transport within the Chicago Terminal District in particular. Most of these improvements are brick and mortar type infrastructure fixes. Yet possibly the most critical need for improved operating performance has to do with both increasing and improving the communication of information among the various rail and truck carriers within the district.

Traditionally railroads have not shared information among each other to protect themselves and knowledge of their freight movements. Today, however, this is no longer possible because of the significant increased traffic creating bottlenecks in Chicago and mergers resulting in fewer carriers.

The process for improvement involves technological implementation and institutional agreements. Both elements can be accommodated by an "air traffic control" type umbrella entity using off-the-shelf technology for the actual information exchange. Precedent is in place for such an organization with various public/private joint ownership terminal companies throughout the country. The regional passenger train operators would be party to such an organization to ensure that passenger rail delays caused by freight are minimized as well. The catalyst for such an endeavor must be the City of Chicago, as the only player that can bring the parties together on a neutral playing field.

Lead agency: Transportation

Other participating agencies: Planning and Development

Timeframe: Feasibility study by March, 2000

Long-Term Initiatives

- #1 A common broadband infrastructure should be available through private or public sources to every residence and business in the City of Chicago. Today's fast-paced technology marketplace is already experimenting with infrastructure to homes and businesses at far faster rates than in the past. In recent months, Ameritech, TCI, 21st Century Telecom and others have all announced or begun services that provide between 10 and 100 times faster than a standard 28.8 k modem. In order for Civic Net applications (such as finding out when the next bus will be coming) to be successful, all residents of the City need access from their home or business. The City has a role in ensuring that this infrastructure is made available to all neighborhoods and at an affordable rate. By implementing Short Term recommendation #1 to build out the Civic Net infrastructure, the City will be in a better position to contract with private firms and ensure that this technology is available to all.
- #2 Expand Civic Net applications to a wide range of government services. Civic Net needs to be expanded to a number of vital city services, including public way construction, licensing and inspections; 311-city-wide service request system, planning and development case management, pavement management, water service programs (meter reading, collections and customer service), city stickers, residential permits, parking, license and permits and auto pound services, and many others. The goal is to move city services on-line to improve customer service and efficiency of the services.
- #3 The City of Chicago should link to other metropolitan, state, national and global networks. The City of Chicago can be the leading major city in the U.S. implementing aggressive technology plans. Its success hinges on being a central focus of technology to a wider area as well. That is why making links to state-of-the-art networks such as the Metropolitan Research Education Consortium, STAR TAP and vBNS and the leading institutions that support them is important.

F. Context

Chicago, 2000 — A Unique Opportunity

Chicago today is uniquely positioned to become a premier commerce center for the digital economy of the 21st century. Because of its rapidly emerging advanced networking infrastructure and its role as a global data communications link, Chicago has a particularly important opportunity to benefit from the current revolution in communications technology, which is increasingly the foundation of the digital economy.

Contrary to popular myth, location does matter¹ even for digital networks — particularly in conjunction with the appropriate strategic directions in infrastructure development. A 1998 Metropolitan Planning Council and Northwestern University report, “The Digital Network Infrastructure and Metropolitan Chicago,” makes the case for leveraging the Chicago region’s pivotal position in the emerging digital network infrastructure. Already the presence of technology based companies is sizable. Over 343,000 people are employed in technology. based companies, representing 11.6% of the Gross State Product. Of Illinois’ technology-based firms, 75% are in the six county metropolitan area with 56% of these in Cook County. Nearly 25% of the 100 largest companies in metropolitan Chicago are in electronics, computers or telecommunications. Illinois ranked third in the export of manufactured technology products, representing almost half of the state’s \$32.2 billion in total exports for 1996.

What makes Chicago attractive for investment is the diversity of its economy and its presence as a leading location for many business decisions. Being the hub of all traditional transportation and infrastructure systems, from rail to highways to air, Chicago is the ideal location for a national nexus for broadband infrastructure and related services.

Chicago is already a major nexus for high performance networks. Virtually every major communications carrier is represented in the city. The National Access Point (NAP), established initially by the National Science Foundation, is one of the top two Internet exchange points in the world. Multiple commercial networks — including telephone, wireless and cable — are all experimenting with major new Internet capacity in the Chicago area. These providers include major international corporations such as Ameritech, MCI WorldCom Sprint, and AT&T (which is experimenting in wireless as well as cable broadband service this year in the Chicago area) and new entries, such as 21st Century Telecom, Level 3, and others.

The NAP provides the core facilities for a number of major advanced networks, including the Metropolitan Research and Education Network (MREN), a seven state regional network, described as the most powerful high-performance regional digital network in the country, and has become a business and technical model for next-generation Internets world-wide. MREN established the world’s first “GigaPOP” (a Gigabit per second exchange point) in Chicago.

The Chicago metro area is the home to key¹ unique global resources such as the Science and Technology Research Transit Access Point (STAR TAP), the world’s only interconnection point for international advanced networks. STAR TAP brings international high-performance networks into Chicago, including those from Canada, Europe, Russia, Asia-Pacific, Israel, and, soon, Latin America. Other national advanced networks in Chicago include: the National Science Foundation’s very high-speed Backbone Network Service (vBNS), an early prototype “next generation Internet¹” Abilene, which is part of the “Internet2” initiative, and multiple Federal agency networks, which are participating in the federal “Next Generation Internet” initiative.