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Corporation**

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June 30, 2000

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RECEIVED
JUN 30 2000
PUBLIC SERVICE
COMMISSION

Mr. Martin Huelsmann
Executive Director
Public Service Commission
211 Sower Blvd.
Frankfort, Kentucky 40601

RE: Interconnection, Resale, and Unbundling Agreement Between GTE South
Incorporated and Pathnet, Inc.

Dear Mr. Huelsmann:

Enclosed for joint filing by the parties with the Kentucky Public Service Commission (Commission) are six copies, of an Interconnection, Resale, and Unbundling Agreement recently executed between GTE South Incorporated and Pathnet, Inc. Also enclosed is an electronic copy of the Agreement in Microsoft Word 97 format on a 3.5 floppy diskette.

This Agreement is being provided to the Commission for its review and approval.

Please bring this filing to the attention of the Commission, and if there are any questions, please contact me at your convenience.

Yours truly,

A handwritten signature in blue ink that reads "Larry D. Callison".

Larry D. Callison

Enclosures

c: Mr. J. Alfred Baird – Pathnet, Inc.

INTERCONNECTION, RESALE AND UNBUNDLING AGREEMENT

BETWEEN

GTE SOUTH INCORPORATED

AND

PATHNET, INC.

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ATTACHMENT A - UNBUNDLED NETWORK ELEMENTS	

This Interconnection, Resale and Unbundling Agreement (the "Agreement"), is by and between GTE South Incorporated, with its address for purposes of this Agreement at 600 Hidden Ridge Drive, Irving, Texas 75038 ("GTE"), and Pathnet, Inc., in its capacity as a certified Provider of local two-way wireline dial-tone service ("Pathnet"), with its address for this Agreement at 11720 Sunrise Valley Drive, Reston, VA, 20191, (GTE and Pathnet being referred to collectively as the "Parties" and individually as a "Party"). This Agreement covers services in the State of Kentucky only (the "State").

WHEREAS, interconnection between competing Local Exchange Carriers (LECs) is necessary and desirable for the mutual exchange and termination of traffic originating on each LEC's network; and

WHEREAS, the Parties desire to exchange such traffic and related signaling in a technically and economically efficient manner at defined and mutually agreed upon interconnection points; and

WHEREAS, the Parties wish to enter into an agreement to interconnect their respective telecommunications networks on terms that are fair and equitable to both Parties; and

WHEREAS, Section 251 of the Telecommunications Act of 1996 (the "Act") imposes specific obligations on LECs with respect to the interconnection of their networks, resale of their telecommunications services, access to their poles, ducts, conduits and rights-of-way and, in certain cases, the offering of certain Unbundled Network Elements (UNEs) and physical collocation of equipment in LEC premises;

NOW, THEREFORE, in consideration of the mutual provisions contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, GTE and Pathnet hereby covenant and agree as follows:

ARTICLE I
SCOPE AND INTENT OF AGREEMENT

Pursuant to this Agreement, the Parties will extend certain arrangements to one another within each area in which they both operate within the State for purposes of interconnection and the exchange of traffic between their respective end-user customers, and reciprocal access to poles, ducts, conduits and rights-of-way. This Agreement also governs the purchase by Pathnet of certain telecommunications services provided by GTE in its franchise areas for resale by Pathnet, the purchase by Pathnet of certain Unbundled Network Elements from GTE, and the terms and conditions of the collocation of certain equipment of Pathnet in the premises of GTE. This Agreement is an integrated package that reflects a balancing of interests critical to the Parties. This Agreement will be submitted to the Kentucky Public Service Commission (the "Commission") for approval. The Parties agree that their entrance into this Agreement is without prejudice to and does not waive any positions they may have taken previously, or may take in the future, in any legislative, regulatory, judicial or other public forum addressing any matters, including matters related to the same types of arrangements and/or matters related to GTE's cost recovery covered in this Agreement. Pathnet agrees to negotiate reciprocal terms and conditions with GTE based on this Agreement.

The services and facilities to be provided to Pathnet by GTE in satisfaction of this Agreement may be provided pursuant to GTE tariffs and then current practices. Should such services and facilities be modified by tariff or by Order, including any modifications resulting from other Commission proceedings, federal court review or other judicial action, and unless otherwise specified herein, such modifications will be deemed to automatically supersede any rates and terms and conditions of this Agreement. The Parties shall cooperate with one another for the purpose of incorporating required modifications into this Agreement.

ARTICLE II
DEFINITIONS

1. General Definitions.

Except as otherwise specified herein, the following definitions shall apply to all Articles and Appendices contained in this Agreement. Additional definitions that are specific to the matters covered in a particular Article may appear in that Article. To the extent that there may be any conflict between a definition set forth in this Article II and any definition in a specific Article or Appendix, the definition set forth in the specific Article or Appendix shall control with respect to that Article or Appendix.

1.1 **Access Service Request (ASR)**

An industry standard form, which contains data elements and usage rules used by the Parties to add, establish, change or disconnect services or trunks for the purposes of Interconnection or the purchase or certain UNEs.

1.2 **Act**

The Telecommunications Act of 1996, Public Law 104-104 of the 104th United States Congress effective February 8, 1996.

1.3 **Affiliate**

A person, corporation or other legal entity that, directly or indirectly, owns or controls a Party, or is owned or controlled by, or is under common ownership or control with a Party.

1.4 **Answer Supervision**

An off-hook supervisory signal.

1.5 **Applicable Law**

All laws, statutes, common law, regulations, ordinances, codes, rules, guidelines, orders, permits, and approvals of any Governmental Authority, which apply or relate to the subject matter of this Agreement.

1.6 **As-Is Transfer (AIT)**

The transfer of all telecommunications services and features available for resale, that are currently being provided for a specific account, without the requirements of a specific enumeration of the services and features on the Local Service Request (LSR).

1.7 **Automatic Location Identification/Data Management System (ALI/DMS)**

The emergency services (E-911/911) database containing customer location information (including name, address, telephone number, and sometimes special information from the local service provider) used to process subscriber access records into Automatic Location Identification (ALI) records. From this database, records are forwarded to GTE's ALI Gateway for downloading by local ALI database systems to be available for retrieval in response to Automatic Number Identification (ANI) from a 9-1-1 call. Also, from this database, GTE will upload to its selective routers the selective router ALI (SR/ALI) which is used to determine to which Public Safety Answering Point (PSAP) to route the call.

- 1.8 **Automated Message Accounting (AMA)**
The structure inherent in switch technology that initially records telecommunication message information. AMA format is contained in the Automated Message Accounting document, published by Telcordia Technologies as GR-1100-CORE which defines the industry standard for message recording.
- 1.9 **Automatic Number Identification (ANI)**
The number transmitted through the network identifying the calling party.
- 1.10 **Basic Local Exchange Service**
Voice grade access to the network that provides: the ability to place and receive calls; touch-tone service, access to operator services; access to directory assistance; access to emergency services (E911); access to telephone relay service (TRS); access to interexchange carriers of the customer's choice; standard white pages directory listing; and toll blocking for low-income consumers participating in Lifeline (subject to technical feasibility).
- 1.11 **Bill-and-Keep Arrangement**
A compensation arrangement whereby the Parties do not render bills to each other for the termination of Local Traffic specified in this Agreement and whereby the Parties terminate local exchange traffic originating from end-users served by the networks of the other Party without explicit charging among or between said carriers for such traffic exchange.
- 1.12 **Bona Fide Request (BFR)**
Process intended to be used when requesting customized Service Orders for certain services, features, capabilities or functionality defined and agreed upon by the Parties as services to be ordered as BFRs.
- 1.13 **Business Day**
Monday through Friday, except for holidays on which the U.S. mail is not delivered.
- 1.14 **Central Office Switch**
A switch used to provide telecommunications services including (1) End Office Switches which are Class 5 switches from which end-user Exchange Services are directly connected and offered, and (2) Tandem Office Switches which are Class 4 switches which are used to connect and switch trunk circuits between and among central office switches. Central office switches may be employed as combination end office/tandem office switches (combination Class 5/Class 4).
- 1.15 **Centralized Message Distribution System (CMDS)**
The billing record and clearing house transport system that the Regional Bell Operating Companies (RBOCs) and other incumbent LECs use to efficiently exchange out collects and in collects as well as Carrier Access Billing System (CABS) records.
- 1.16 **CLLI Codes**
Common Language Location Identifier Codes.
- 1.17 **Commission**
The Kentucky Public Services Commission.

- 1.18 **Common Channel Signaling (CCS)**
A high-speed specialized packet-switched communications network that is separate (out-of-band) from the public packet-switched and message networks. CCS carries addressed signaling messages for individual trunk circuits and/or database-related services between Signaling Points in the CCS network using SS7 signaling protocol.
- 1.19 **Competitive Local Exchange Carrier (CLEC)**
Any company or person authorized to provide local exchange services in competition with an ILEC.
- 1.20 **Compliance**
Environmental and safety laws and regulations based upon a federal regulatory framework, with certain responsibilities delegated to the States. An environmental/safety compliance program may include review of applicable laws/regulations, development of written procedures, training of employees and auditing.
- 1.21 **Conversation Time**
The time that both Parties' equipment is used for a completed call, measured from the receipt of Answer Supervision to the receipt of Disconnect Supervision.
- 1.22 **Currently Available**
Existing as part of GTE's network at the time of the requested order or service and does not include any service, feature, function or capability that GTE either does not provide to itself or to its own end users, or does not have the capability to provide.
- 1.23 **Customer**
GTE or Pathnet, depending on the context and which Party is receiving the service from the other Party.
- 1.24 **Customer Service Record Search**
Applied to LSR when CLEC requests a customer service record search prior to account conversion from GTE or from another CLEC. Search typically is for basic account information, listing/directory information, service and equipment listing, and billing information. Applied on a per requested loop and/or port basis.
- 1.25 **Dedicated Transport**
An Unbundled Network Element that is purchased for the purpose of transporting Telecommunication Services between designated Serving Wire Centers (SWC). Dedicated Transport may extend between two GTE SWCs (Interoffice Dedicated Transport or IDT) or may extend from the GTE SWC to the CLEC premise (CLEC Dedicated Transport or CDT). CDT remains within the exchange boundaries of the SWC, while IDT traverses exchange boundaries. IDT may also be provided to the meet point of a central office of another ILEC in the same LATA from a GTE central office.
- 1.26 **Disconnect Supervision**
An on-hook supervisory signal end at the completion of a call.
- 1.27 **DS-1**
A service carried at digital signal rate of 1.544 Mbps.

- 1.28 **DS-3**
A service carried at digital signal rate of 44.736 Mbps.
- 1.29 **Electronic File Transfer**
A system or process which utilizes an electronic format and protocol to send/receive data files.
- 1.30 **Enhanced Service Provider (ESP) /Internet Service Provider (ISP) Traffic**
Traffic bound to any Enhanced Service Provider or Internet Service Provider. ESP/ISP Traffic is separate and distinct from Local Traffic.
- 1.31 **E-911 Service**
A method of routing 911 calls to a PSAP that uses a customer location database to determine the location to which a call should be routed. E-9-1-1 service includes the forwarding of the caller's Automatic Number Identification (ANI) to the PSAP where the ANI is used to retrieve and display the Automatic Location Identification (ALI) on a terminal screen at the answering Attendant's position. It usually includes selective routing.
- 1.32 **Exchange Message Record (EMR)**
An industry standard record used to exchange telecommunications message information among CLECs for billable, non-billable, sample, settlement and study data. EMR format is defined in BR-010-200-010 CRIS Exchange Message Record, published by Telcordia Technologies.
- 1.33 **Exchange Service**
All basic access line services, or any other services offered to end users which provide end users with a telephonic connection to, and a unique telephone number address on, the Public Switched Telecommunications Network (PSTN), and which enable such end users to place or receive calls to all other stations on the PSTN.
- 1.34 **Expanded Interconnection Service (EIS)**
A service that provides interconnecting carriers with the capability to terminate basic fiber optic transmission facilities, including optical terminating equipment and multiplexers, at GTE's wire centers and access tandems and interconnect those facilities with the facilities of GTE. Microwave transport is available on a case-by-case basis subject to space availability and where technically feasible.
- 1.35 **Facility**
All buildings, equipment, structures and other items located on a single site or contiguous or adjacent sites owned or operated by the same persons or person as used in Article III, Section 47.
- 1.36 **FCC**
The Federal Communications Commission.
- 1.37 **Generator**
Under the Resource Conservation Recovery Act (RCRA), the person whose act produces a hazardous waste (40 CFR 261) or whose act first causes a hazardous waste to become subject to regulation. The generator is legally responsible for the proper management and

disposal of hazardous wastes in accordance with regulations (see reference in Article III, Section 47).

1.38 **GTE Guide**

The GTE Open Market Transition Order/Processing Guide, LSR Guide, and Products and Services Guide which contain GTE's operating procedures for ordering, provisioning, trouble reporting and repair for resold services and unbundled elements and GTE's CLEC Interconnection Guide which provides guidelines for obtaining interconnection of GTE's Switched Network with the networks of all certified CLECs for reciprocal exchange of traffic. Except as specifically provided otherwise in this Agreement, service ordering, provisioning, billing and maintenance shall be governed by the Guide which may be amended from time to time by GTE as needed.

1.39 **GTOC**

GTE Telephone Operating Company.

1.40 **Hazardous Chemical**

As defined in the U.S. Occupational Safety and Health (OSHA) hazard communication standard (29 CFR 1910.1200), any chemical which is a health hazard or physical hazard.

1.41 **Hazardous Waste**

As described in Resource Conservation Recovery Act (RCRA), a solid waste(s) which may cause, or significantly contribute to an increase in mortality or illness or pose a substantial hazard to human health or the environment when improperly treated, stored, transported or disposed of or otherwise managed because of its quantity, concentration or physical or chemical characteristics.

1.42 **Imminent Danger**

As described in the Occupational Safety and Health Act and expanded for environmental matters, any conditions or practices at a facility which are such that a danger exists which could reasonably be expected to cause death or serious harm or significant damage to the environment or natural resources.

1.43 **Incumbent Local Exchange Carrier (ILEC)**

Any local exchange carrier that was as of February 8, 1996, deemed to be a member of the Exchange Carrier Association as set forth in 47 C.F.R. ' 69.601(b) of the FCC's regulations.

1.44 **Initial Service Order**

A charge applied to each LSR of Unbundled Loops and/or Ports with the exception of Subsequent Service Order changes to existing CLEC accounts.

1.45 **Interconnection Facility**

See "Internetwork Facilities".

1.46 **Interconnection Point (IP)**

The physical point on the network where the two parties interconnect. The IP is the demarcation point between ownership of the transmission facility.

- 1.47 **Interexchange Carrier (IXC)**
A telecommunications service provider authorized by the FCC to provide interstate long distance communications services between LATAs and is authorized by the State to provide inter- and/or intraLATA long distance communications services within the State.
- 1.48 **Interim Number Portability (INP)**
The delivery of Local Number Portability (LNP) capabilities, from a customer standpoint in terms of call completion, with as little impairment of functioning, quality, reliability, and convenience as possible and from a carrier standpoint in terms of compensation, through the use of existing and available call routing, forwarding, and addressing capabilities.
- 1.49 **Internetwork Facilities**
The physical connection of separate pieces of equipment, transmission facilities, etc., within, between and among networks, for the transmission and routing of exchange service and exchange access.
- 1.50 **ISDN User Part (ISUP)**
A part of the SS7 protocol that defines call setup messages and call takedown messages.
- 1.51 **Line Information Data Base (LIDB)**
One or all, as the context may require, of the Line Information databases owned individually by GTE and other entities which provide, among other things, calling card validation functionality for telephone line number cards issued by GTE and other entities. A LIDB also contains validation data for collect and third number-billed calls; i.e., Billed Number Screening.
- 1.52 **Line Side**
Refers to an end office switch connection that has been programmed to treat the circuit as a local line connected to an ordinary telephone station set. Line side connections offer only those transmission and signaling features appropriate for a connection between an end office and an ordinary telephone set.
- 1.53 **Local Access and Transport Area (LATA)**
A geographic area for the provision and administration of communications service; i.e., intraLATA or interLATA.
- 1.54 **Local Exchange Carrier (LEC)**
Any company certified by the Commission to provide local exchange telecommunications service. This includes the Parties to this Agreement.
- 1.55 **Local Exchange Routing Guide (LERG)**
The Telcordia Technologies reference customarily used to identify NPA-NXX routing and homing information, as well as network element and equipment designation.
- 1.56 **Local Number Portability (LNP)**
The ability of users of telecommunications services to retain, at the same location, existing telecommunications numbers without impairment of quality, reliability, or convenience when switching from one telecommunications carrier to another.

- 1.57 **Local Service Request (LSR)**
The industry standard form, which contains data elements and usage rules, used by the Parties to establish, add, change or disconnect resold services and unbundled elements for the purposes of competitive local services.
- 1.58 **Local Traffic**
Traffic that is originated by an end user of one Party and terminates to the end user of the other Party within GTE's then current local serving area, including mandatory local calling scope arrangements. A mandatory local calling scope arrangement is an arrangement that provides end users a local calling scope, Extended Area Service (EAS), beyond their basic exchange serving area. Local Traffic does not include optional local calling scopes (i.e., optional rate packages that permit the end user to choose a local calling scope beyond their basic exchange serving area for an additional fee), referred to hereafter as "optional EAS". Local Traffic excludes Enhanced Service Provider (ESP) and Internet Service Provider (ISP) traffic, including but not limited to Internet, 900-976, etc., and Internet Protocol based long distance telephony.
- 1.59 **Loop Facility Charge**
A charge applied to LSRs when field work is required for establishment of unbundled loop service. Applied on a per LSR basis.
- 1.60 **Main Distribution Frame (MDF)**
The distribution frame used to interconnect cable pairs and line trunk equipment terminating on a switching system.
- 1.61 **Meet-Point Billing (MPB)**
Refers to an arrangement whereby two LECs jointly provide the transport element of a switched access service to one of the LEC's end office switches, with each LEC receiving an appropriate share of the transport element revenues as defined by the effective access tariffs.
- 1.62 **Mid-Span Fiber Meet**
An Interconnection architecture whereby two carriers' fiber transmission facilities meet at a mutually agreed-upon IP.
- 1.63 **Multiple Exchange Carrier Access Billing (MECAB)**
Refers to the document prepared by the Billing Committee of the Ordering and Billing Forum (OBF), which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for Telecommunications Industry Solutions (ATIS). The MECAB document, published by Telcordia Technologies as Special Report SR-BDS-000983, contains the recommended guidelines for the billing of an access service provided by two or more LECs, or by one LEC in two or more states within a single LATA.
- 1.64 **Multiple Exchange Carriers Ordering and Design Guidelines for Access Services - Industry Support Interface (MECOD)**
A document developed by the Ordering/Provisioning Committee under the auspices of the Ordering and Billing Forum (OBF), which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for Telecommunications Industry Solutions (ATIS). The MECOD document, published by Telcordia Technologies as Special Report SR-ST-

002643, establishes methods for processing orders for access service which is to be provided by two or more LECs.

1.65 **Network Interface Device (NID)**

The point of demarcation between the end user's inside wiring and GTE's facilities.

1.66 **911 Service**

A universal telephone number which gives the public direct access to the PSAP. Basic 911 service collects 911 calls from one or more local exchange switches that serve a geographic area. The calls are then sent to the correct authority designated to receive such calls.

1.67 **North American Numbering Plan (NANP)**

The system of telephone numbering employed in the United States, Canada, and Caribbean countries that employ NPA 809 and others that may be assigned.

1.68 **Numbering Plan Area (NPA)**

Also sometimes referred to as an area code, is the three digit indicator which is defined by the "A", "B", and "C" digits of each 10-digit telephone number within the NANP. Each NPA contains 800 possible NXX Codes. There are two general categories of NPA, "Geographic NPAs" and "Non-Geographic NPAs". A Geographic NPA is associated with a defined geographic area, and all telephone numbers bearing such NPA are associated with services provided within that geographic area. A Non-Geographic NPA, also known as a "Service Access Code" or "SAC Code" is typically associated with a specialized telecommunications service which may be provided across multiple geographic NPA areas. 800, 900, 700, and 888 are examples of Non-Geographic NPAs.

1.69 **NXX, NXX Code, Central Office Code or CO Code**

The three digit switch entity indicator which is defined by the "D", "E", and "F" digits of a 10-digit telephone number within the NANP. Each NXX Code contains 10,000 station numbers.

1.70 **Owner or Operator**

As used in OSHA regulations, owner is the legal entity, including a lessee, which exercises control over management and record keeping functions relating to a building or facility. As used in the Resource Conservation and Recovery Act (RCRA), operator means the person responsible for the overall (or part of the) operations of a facility (see reference in Article III, Section 47).

1.71 **Party/Parties**

GTE and/or Pathnet.

1.72 **Pole Attachment**

Refers to the definition set forth in Article X.

1.73 **Provider**

GTE or Pathnet depending on the context and which Party is providing the service to the other Party.

- 1.74 **Public Safety Answering Point (PSAP)**
An answering location for 9-1-1 calls originating in a given area. A PSAP may be designated as Primary or Secondary, which refers to the order in which calls are directed for answering. Primary PSAPs respond first; Secondary PSAPs receive calls on a transfer basis only, and generally serve as a centralized answering location for a particular type of emergency call. PSAPs are staffed by employees of Emergency Response Agencies (ERAs) such as police, fire or emergency medical agencies or by employees of a common bureau serving a group of such entities.
- 1.75 **Rate Center**
The specific geographic point and corresponding geographic area that are associated with one or more particular NPA-NXX Codes that have been assigned to a LEC for its provision of Exchange Services. The geographic point is identified by a specific Vertical and Horizontal (V&H) coordinate that is used to calculate distance-sensitive end user traffic to/from the particular NPA-NXXs associated with the specific Rate Center.
- 1.76 **Right-of-way (ROW)**
The right to use the land or other property of another party to place poles, conduits, cables, other structures and equipment, or to provide passage to access such structures and equipment. A ROW may run under, on, or above public or private property (including air space above public or private property) and may include the right to use discrete space in buildings, building complexes, or other locations.
- 1.77 **Routing Point**
Denotes a location that a LEC has designated on its network as the homing (routing) point for traffic that terminates to Exchange Services provided by the LEC that bear a certain NPA-NXX designation. The Routing Point is used to calculate airline mileage for the distance-sensitive transport element charges of Switched Access Services. Pursuant to Telcordia Technologies Practice BR795-100-100, the Routing Point may be an end office location, or a "LEC Consortium Point of Interconnection." The Routing Point must be in the same LATA as the associated NPA-NXX.
- 1.78 **Service Control Point (SCP)**
The node in the signaling network to which informational requests for service handling, such as routing, are directed and processed. The SCP is a real time database system that, based on a query from the SSP, performs subscriber or application-specific service logic, and then sends instructions back to the SSP on how to continue call processing.
- 1.79 **Service Switching Point (SSP)**
A Signaling Point that can launch queries to databases and receive/interpret responses used to provide specific customer services.
- 1.80 **Shared Transport**
The physical interoffice facility not dedicated to any one customer, that is used to transport a call between switching offices. A central office switch translates the end user dialed digits and routes the call over a Common Transport Trunk Group that rides interoffice transmission facilities. These trunk groups and the associated interoffice transmission facilities are accessible by any end user (GTE end user or Pathnet end user when Pathnet has purchased unbundled local switching), and are referred to as "shared transport facilities".

- 1.81 **Signaling Point (SP)**
A node in the CCS network that originates and/or receives signaling messages, or transfers signaling messages from one signaling link to another, or both.
- 1.82 **Signaling System 7 (SS7)**
The signaling protocol, Version 7, of the CCS network, based upon American National Standards Institute (ANSI) standards.
- 1.83 **Signal Transfer Point (STP)**
A packet switch in the CCS network that is used to route signaling messages among SSPs, SCPs and other STPs in order to set up calls and to query databases for advanced services. GTE's network includes mated pairs of local and regional STPs. STPs are provided in pairs for redundancy. GTE STPs conform to ANSI T1.111-8 standards.
- 1.84 **Subsidiary**
A corporation or other legal entity that is majority owned by a Party.
- 1.85 **Subsequent Service Order**
Applied to LSRs requesting a service change to an existing unbundled account (no CLEC transfer). For disconnect-only LSRs, no NRC will be applied.
- 1.86 **Synchronous Optical Network (SONET)**
Synchronous electrical (STS) or optical channel (OC) connections between LECs.
- 1.87 **Switched Access Service**
The offering of facilities for the purpose of the origination or termination of traffic to or from Exchange Service customers in a given area pursuant to a switched access tariff. Switched Access Services include: Feature Group A, Feature Group B, Feature Group C, Feature Group D, 800 access and 900 access services.
- 1.88 **Telcordia Technologies**
A wholly owned subsidiary of Science Applications International Corporation (SAIC). The organization conducts research and development projects for its owners, including development of new telecommunications services. Telcordia Technologies also provides certain centralized technical and management services for the regional holding companies and also provides generic requirements for the telecommunications industry for products, services and technologies.
- 1.89 **Telecommunications Services**
The offering of telecommunications for a fee directly to the public, or to such classes of users as to be effectively available directly to the public, regardless of the facilities used.
- 1.90 **Third Party Contamination**
Environmental pollution that is not generated by the LEC or Pathnet but results from off-site activities impacting a facility.

1.91 **Transfer of Service**

A charge applied to LSRs which involve account changes (e.g., CLEC to CLEC transfers, DA & CPE billing changes on Unbundled Ports).

1.92 **Trunk Side**

Refers to a central office switch connection that is capable of, and has been programmed to treat the circuit as, connecting to another switching entity, for example, to another central office switch. Trunk side connections offer those transmission and signaling features appropriate for the connection of switching entities and cannot be used for the direct connection of ordinary telephone station sets.

1.93 **Unbundled Network Element (UNE)**

Generally a facility or equipment used in the provision of a Telecommunications Service. Specific references to UNEs contained throughout this Agreement shall be to the network elements that are to be unbundled pursuant to Article VII of this Agreement.

1.94 **Undefined Terms**

Terms that may appear in this Agreement which are not defined. Parties acknowledge and agree that any such terms shall be construed in accordance with customary usage in the telecommunications industry as of the effective date of this Agreement.

1.95 **Vertical Features (including CLASS Features)**

Vertical services and switch functionalities provided by GTE, including: Automatic Call Back; Automatic Recall; Call Forwarding Busy Line/Don't Answer; Call Forwarding Don't Answer; Call Forwarding Variable; Call Forwarding - Busy Line; Call Trace; Call Waiting; Call Number Delivery Blocking Per Call; Calling Number Blocking Per Line; Cancel Call Waiting; Distinctive Ringing/Call Waiting; Incoming Call Line Identification Delivery; Selective Call Forward; Selective Call Rejection; Speed Calling; and Three Way Calling/Call Transfer.

1.96 **Wire Center**

A building or space within a building that serves as an aggregation point on a LEC's network, where transmission facilities and circuits are connected or switched. Wire Center can also denote a building in which one or more Central Offices, used for the provision of exchange services and access services, are located.

ARTICLE III

GENERAL PROVISIONS

1. Scope of General Provisions.

Except as may otherwise be set forth in a particular Article or Appendix of this Agreement, in which case the provisions of such Article or Appendix shall control, these General Provisions apply to all Articles and Appendices of this Agreement.

2. Term and Termination.

2.1 Term.

Subject to the termination provisions contained in this Agreement, the term of this Agreement shall be from the Effective Date of this Agreement until September 15, 2002 and shall continue in effect for consecutive six (6) month terms unless either Party gives the other Party at least ninety (90) calendar days written notice of termination, which termination shall be effective at the end of the then-current term ("Termination Date"). In the event notice is given less than 90 calendar days prior to the end of the current term, this Agreement shall remain in effect for 90 calendar days after such notice is received, provided, that in no case shall the Termination Date be extended beyond 90 calendar days after the end of the current term.

2.2 Post-Termination Arrangements.

Except in the case of termination as a result of either Party's Default under Section 2.3 below, or a termination upon sale, pursuant to Section 2.4, for service arrangements made available under this Agreement and existing at the time of termination, those arrangements may continue:

- (a) As if under this Agreement, if either Party has requested negotiations for a new agreement pursuant to Sections 251 and 252 of the Act, (i) until this Agreement has been replaced by a new agreement, or (ii) for up to one hundred eighty (180) calendar days following the Termination Date, whichever is earlier.
- (b) If this Agreement is not continued pursuant to subsection (a) preceding under (i) a new agreement voluntarily executed by the Parties; (ii) standard terms and conditions approved and made generally effective by the Commission, if any; (iii) tariff terms and conditions made generally available to all Local Providers; or (iv) any rights under Section 252(i) of the Act.

2.3 Termination Upon Default.

Either Party may terminate this Agreement in whole or in part in the event of a default by the other Party; *provided however*, that the non-defaulting Party notifies the defaulting party in writing of the alleged default and that the defaulting Party does not cure the alleged default within sixty (60) calendar days of receipt of written notice thereof. Default is defined to include:

- (a) A Party's insolvency or the initiation of bankruptcy or receivership proceedings by or against the Party; or
- (b) A Party's refusal or failure in any material respect properly to perform its obligations under this Agreement, or the violation of any of the material terms or conditions of this Agreement.

2.4 Termination Upon Sale.

Notwithstanding anything to the contrary contained herein, a Party may terminate this Agreement as to a specific operating area or portion thereof if such Party sells or otherwise transfers the area or portion thereof. The selling or transferring Party shall provide the other Party with at least ninety (90) calendar days' prior written notice of such termination, which shall be effective on the date specified in the notice. Notwithstanding termination of this Agreement as to a specific operating area, this Agreement shall remain in full force and effect in the remaining operating areas.

2.5 Liability Upon Termination.

Termination of this Agreement, or any part hereof, for any cause shall not release either Party from any liability which at the time of termination had already accrued to the other Party or which thereafter accrues in any respect to any act or omission occurring prior to the termination or from an obligation which is expressly stated in this Agreement to survive termination.

3. Amendments.

Any amendment, modification, or supplement to this Agreement must be in writing and signed by an authorized representative of each Party. The term "this Agreement" shall include future amendments, modifications, and supplements.

4. Assignment.

Any assignment by either Party of any right, obligation, or duty, in whole or in part, or of any interest, without the written consent of the other Party shall be void, except that either Party may assign all of its rights, and delegate its obligations, liabilities and duties under this Agreement, either in whole or in part, to any entity that is, or that was immediately preceding such assignment, a Subsidiary or Affiliate of that Party without consent, but with written notification. The effectiveness of an assignment shall be conditioned upon the assignee's written assumption of the rights, obligations, and duties of the assigning Party.

5. Authority.

Each person whose signature appears on this Agreement represents and warrants that he or she has authority to bind the Party on whose behalf he or she has executed this Agreement. Each Party represents he or she has had the opportunity to consult with legal counsel of his or her choosing and Pathnet has not relied on GTE counsel, pursuant to this Agreement.

6. Responsibility for Payment.

GTE may charge Pathnet and Pathnet will pay GTE a deposit before GTE is required to perform under this agreement if Pathnet has not established a good payment history with GTE. Payments for collocation will be considered when evaluating credit history. Such deposit will be calculated based on GTE's estimated two-month charges to Pathnet using Pathnet's forecast of resale lines and unbundled UNE combinations. Interest will be paid on the deposit in accordance with state requirements for end user deposits.

7. CLEC Profile.

Before orders can be taken, the CLEC Profile must be completed and returned; and, if required, an advanced deposit paid. Pathnet will provide GTE with its Operating Company Number (OCN), Company Code (CC), and Customer Carrier Name Abbreviation (CCNA) as described in the GTE Guide. Pathnet agrees to warrant to GTE that it is a certified provider of telecommunications

service. Pathnet will document its Certificate of Operating Authority on the CLEC Profile and agrees to update this CLEC Profile as required to reflect its current certification.

8. Contact Exchange.

The Parties agree to exchange and to update contact and referral numbers for order inquiry and entry, trouble reporting, billing inquiries, collocation and information required to comply with law enforcement and other security agencies of the government.

9. Electronic Interface.

The Parties shall work cooperatively in the implementation of electronic gateway access to GTE operational support systems functions in the long-term in accordance with established industry standards (e.g. Ordering and Billing Forum). Pathnet should refer to the GTE Guide for the current OSS capabilities.

9.1 Pathnet may migrate to fully interactive system to system interconnectivity. GTE, with input from Pathnet and other carriers, shall provide general interface specifications for electronic access to this functionality. These specifications will be provided to enable Pathnet to design system interface capabilities. Development will be in accordance with applicable national standards committee guidelines. Such interfaces will be available as expeditiously as possible.

9.2 All costs and expenses for any new or modified electronic interfaces exclusively to meet Pathnet requirements that GTE determines are different from what is Currently Available will be paid by Pathnet, if GTE is in agreement.

9.3 Pathnet shall be responsible for modifying and connecting any of its pre-ordering and ordering systems with GTE provided interfaces as described in the Guide.

10. Billing and Payment.

Except as provided elsewhere in this Agreement and where applicable, in conformance with Multiple Exchange Carrier Access Billing (MECAB) guidelines and Multiple Exchange Carriers Ordering and Design Guidelines for Access Services-Industry Support Interface (MECOD), Pathnet and GTE agree to exchange all information to accurately, reliably, and properly order and bill for features, functions and services rendered under this Agreement.

10.1 Back Billing.

Neither Party will bill the other Party for previously unbilled charges that are for more than one-year prior to the current billing date.

10.2 Dispute.

If one Party disputes a billing statement issued by the other Party, the billed Party shall notify Provider in writing regarding the nature and the basis of the dispute within six (6) months of the statement date or the dispute shall be waived. The Parties shall diligently work toward resolution of all billing issues.

10.3 Late Payment Charge.

If any undisputed amount due on the billing statement is not received by Provider on the payment due date, Provider shall calculate and assess, and Customer agrees to pay, at Provider's option, a charge on the past due balance at an interest rate equal to the amount allowed by the applicable GTE/Contel state access tariffs, the state retail tariff, or the GTOC/GSTC FCC No. 1 tariff, in accordance with the service ordered, or the maximum

nonusurious rate of interest under applicable law. Late payment charges shall be included on the next statement.

10.4 Due Date.

Payment is due thirty (30) calendar days from the bill date.

10.5 Audits.

Either Party may conduct an audit of the other Party's books and records pertaining to the Services provided under this Agreement, no more frequently than once per twelve (12) month period, to evaluate the other Party's accuracy of billing, data and invoicing in accordance with this Agreement. Any audit shall be performed as follows: (i) following at least thirty (30) Business Days' prior written notice to the audited Party; (ii) subject to the reasonable scheduling requirements and limitations of the audited Party; (iii) at the auditing Party's sole cost and expense; (iv) of a reasonable scope and duration; (v) in a manner so as not to interfere with the audited Party's business operations; and (vi) in compliance with the audited Party's security rules.

11. Binding Effect.

This Agreement shall be binding on and inure to the benefit of the respective successors and permitted assigns of the Parties.

12. Capacity Planning and Forecasting.

Prior to Pathnet ordering service, the Parties agree to have met and developed joint planning and forecasting responsibilities which are applicable to Local Services, including Features, UNEs, Interim Number Portability (INP), Interconnection Services, Collocation, Poles, Conduits and Rights-of-Way (ROW). GTE may delay processing Pathnet service orders should the Parties not perform obligations as specified in this Section 12. Such responsibilities shall include but are not limited to the following:

12.1 The Parties will establish periodic reviews of network and technology plans and will notify one another no later than six (6) months in advance of changes that would impact either Party's provision of services.

12.2 Pathnet will furnish to GTE information that provides for state-wide annual forecasts of order activity, in-service quantity forecasts, and facility/demand forecasts.

12.3 The Parties will develop joint forecasting responsibilities for traffic utilization over trunk groups and yearly forecasted trunk quantities as set forth in Article V.

12.4 Pathnet shall notify GTE promptly of changes greater than ten percent (10%) to current forecasts (increase or decrease) that generate a shift in the demand curve for the following forecasting period.

13. Compliance with Laws and Regulations.

Each Party shall comply with all federal, state, and local statutes, regulations, rules, ordinances, judicial decisions, and administrative rulings applicable to its performance under this Agreement.

14. Confidential Information.

14.1 Identification.

Either Party may disclose to the other proprietary or confidential customer, technical, or business information in written, graphic, oral or other tangible or intangible forms ("Confidential Information"). In order for information to be considered Confidential Information under this Agreement, it must be marked "Confidential" or "Proprietary," or bear a marking of similar import. Orally or visually disclosed information shall be deemed Confidential Information only if contemporaneously identified as such and reduced to writing and delivered to the other Party with a statement or marking of confidentiality within thirty (30) calendar days after oral or visual disclosure.

Notwithstanding the foregoing, preorders and all orders for services or UNEs placed by Pathnet pursuant to this Agreement, and information that would constitute customer proprietary network information of Pathnet end user customers pursuant to the Act and the rules and regulations of the FCC, as well as recorded usage information with respect to Pathnet end users, whether disclosed by Pathnet to GTE or otherwise acquired by GTE in the course of its performance under this Agreement, and where GTE is the North American Numbering Plan (NANP) Number Plan Administrator, Pathnet information submitted to GTE in connection with such responsibilities shall be deemed Confidential Information of Pathnet for all purposes under this Agreement whether or not specifically marked or designated as confidential or proprietary.

14.2 Handling.

In order to protect such Confidential Information from improper disclosure, each Party agrees:

- (a) That all Confidential Information shall be and shall remain the exclusive property of the source;
- (c) To limit access to such Confidential Information to authorized employees who have a need to know the Confidential Information for performance of this Agreement;
- (d) To keep such Confidential Information confidential and to use the same level of care to prevent disclosure or unauthorized use of the received Confidential Information as it exercises in protecting its own Confidential Information of a similar nature;
- (e) Not to copy, publish, or disclose such Confidential Information to others or authorize anyone else to copy, publish, or disclose such Confidential Information to others without the prior written approval of the source;
- (f) To return promptly any copies of such Confidential Information to the source at its request; and
- (g) To use such Confidential Information only for purposes of fulfilling work or services performed hereunder and for other purposes only upon such terms as may be agreed upon between the Parties in writing.

14.3 Exceptions.

These obligations shall not apply to any Confidential Information that was legally in the recipient's possession prior to receipt from the source, was received in good faith from a third party not subject to a confidential obligation to the source, now is or later becomes publicly known through no breach of confidential obligation by the recipient, was developed

by the recipient without the developing persons having access to any of the Confidential Information received in confidence from the source, or that is required to be disclosed pursuant to subpoena or other process issued by a court or administrative agency having appropriate jurisdiction, provided, however, that the recipient shall give prior notice to the source and shall reasonably cooperate if the source deems it necessary to seek protective arrangements.

14.4 Survival.

The obligation of confidentiality and use with respect to Confidential Information disclosed by one Party to the other shall survive any termination of this Agreement for a period of three (3) years from the date of the initial disclosure of the Confidential Information.

15. Consent.

Where consent, approval, or mutual agreement is required of a Party, it shall not be conditional, unreasonably withheld, or delayed.

16. Fraud.

Pathnet assumes responsibility for all fraud associated with its end-user customers and accounts. GTE shall bear no responsibility for, nor is it required to investigate or make adjustments to Pathnet's account in cases of fraud. GTE will work in good faith and use commercially reasonable efforts to promptly notify PATHNET of fraud when GTE has actual knowledge of such fraud activity.

17. Reimbursement of Expenses.

In performing under this Agreement GTE may be required to make expenditures or otherwise incur costs that are not otherwise reimbursed under this Agreement. In such event GTE is entitled to reimbursement from Pathnet for all such costs. For all such costs and expenses GTE shall receive through NRCs the actual costs and expenses incurred, including labor costs and expenses, overhead and fixed charges, and may include a reasonable contribution to GTE's common costs

18. Dispute Resolution.

18.1 Alternative to Litigation.

Except as provided under Section 252 of the Act with respect to the approval of this Agreement by the Commission, the Parties desire to resolve disputes arising out of or relating to this Agreement without litigation. Accordingly, except for action seeking a temporary restraining order or an injunction related to the purposes of this Agreement, or suit to compel compliance with this dispute resolution process, the Parties agree to use the following alternative dispute resolution procedures as the sole remedy with respect to any controversy or claim arising out of or relating to this Agreement or its breach.

18.2 Negotiations.

At the written request of a Party, each Party will appoint a knowledgeable, responsible representative to meet and negotiate in good faith to resolve any dispute arising out of or relating to this Agreement. The Parties intend that these negotiations be conducted by non-lawyer, business representatives. The location, format, frequency, duration, and conclusion of these discussions shall be left to the discretion of the representatives. Upon agreement, the representatives may utilize other alternative dispute resolution procedures such as mediation to assist in the negotiations. Discussions and correspondence among the representatives for purposes of these negotiations shall be treated as confidential information developed for purposes of settlement, exempt from discovery, and shall not be

admissible in the arbitration described below or in any lawsuit without the concurrence of all Parties. Documents identified in or provided with such communications, which are not prepared for purposes of the negotiations, are not so exempted and may, if otherwise discoverable, be discovered or otherwise admissible, be admitted in evidence, in the arbitration or lawsuit.

18.3 Arbitration.

If the negotiations do not resolve the dispute within sixty (60) Business Days of the initial written request, the dispute shall be submitted to binding arbitration by a single arbitrator pursuant to the Commercial Arbitration Rules of the American Arbitration Association except that the Parties may select an arbitrator outside American Arbitration Association rules upon mutual agreement. A Party may demand such arbitration in accordance with the procedures set out in those rules. Discovery shall be controlled by the arbitrator and shall be permitted to the extent set out in this section. Each Party may submit in writing to a Party, and that Party shall so respond to, a maximum of any combination of thirty-five (35) (none of which may have subparts) of the following: interrogatories, demands to produce documents, or requests for admission. Each Party is also entitled to take the oral deposition of one individual of another Party. Additional discovery may be permitted upon mutual agreement of the Parties. The arbitration hearing shall be commenced within sixty (60) Business Days of the demand for arbitration. The arbitration shall be held in a mutually agreeable city. The arbitrator shall control the scheduling so as to process the matter expeditiously. The Parties may submit written briefs. The arbitrator shall rule on the dispute by issuing a written opinion within thirty (30) Business Days after the close of hearings. The times specified in this section may be extended upon mutual agreement of the Parties or by the arbitrator upon a showing of good cause. Judgment upon the award rendered by the arbitrator may be entered in any court having jurisdiction.

18.4 Expedited Arbitration Procedures.

If the issue to be resolved through the negotiations referenced in Section 18.2 directly and materially affects service to either Party's end-user customers, then the period of resolution of the dispute through negotiations before the dispute is to be submitted to binding arbitration shall be five (5) Business Days. Once such a service affecting dispute is submitted to arbitration, the arbitration shall be conducted pursuant to the expedited procedures rules of the Commercial Arbitration Rules of the American Arbitration Association (i.e., rules 53 through 57).

18.5 Costs.

Each Party shall bear its own costs of these procedures. A Party seeking discovery shall reimburse the responding Party the costs of production of documents (including search time and reproduction costs). The Parties shall equally split the fees of the arbitration and the arbitrator.

18.6 Continuous Service.

The Parties shall continue providing services to each other during the pendency of any dispute resolution procedure, and the Parties shall continue to perform their obligations (including making payments in accordance with Article IV, Section 4) in accordance with this Agreement.

19. Entire Agreement.

This Agreement constitutes the entire agreement of the Parties pertaining to the subject matter of this Agreement and supersedes all prior agreements, negotiations, proposals, and representations,

whether written or oral, and all contemporaneous oral agreements, negotiations, proposals, and representations concerning such subject matter. No representations, understandings, agreements, or warranties, expressed or implied, have been made or relied upon in the making of this Agreement other than those specifically set forth herein.

20. Expenses.

Except as specifically set out in this Agreement, each Party shall be solely responsible for its own expenses involved in all activities related to the subject of this Agreement.

21. Force Majeure.

In the event performance of this Agreement, or any obligation hereunder, is either directly or indirectly prevented, restricted, or interfered with by reason of fire, flood, earthquake or likes acts of God, wars, revolution, civil commotion, explosion, acts of public enemy, embargo, acts of the government in its sovereign capacity, labor difficulties, including without limitation, strikes, slowdowns, picketing, or boycotts, unavailability of equipment from vendor, changes requested by Customer, or any other circumstances beyond the reasonable control and without the fault or negligence of the Party affected, the Party affected, upon giving prompt notice to the other Party, shall be excused from such performance on a day-to-day basis to the extent of such prevention, restriction, or interference (and the other Party shall likewise be excused from performance of its obligations on a day-to-day basis until the delay, restriction or interference has ceased); *provided however*, that the Party so affected shall use diligent efforts to avoid or remove such causes of nonperformance and both Parties shall proceed whenever such causes are removed or cease.

22. Good Faith Performance.

In the performance of their obligations under this Agreement, the Parties shall act in good faith. In situations in which notice, consent, approval or similar action by a Party is permitted or required by any provision of this Agreement, such action shall not be conditional, unreasonably withheld or delayed.

23. Governing Law.

This Agreement shall be governed by and construed in accordance with the Telecommunications Act of 1996, applicable federal and (to the extent not inconsistent therewith) domestic laws of the state where the services are provided or the facilities reside and shall be subject to the exclusive jurisdiction of the courts therein.

24. Standard Practices.

The Parties acknowledge that GTE shall be adopting some industry standard practices and/or establishing its own standard practices to various requirements hereunder applicable to the CLEC industry which may be added in the Guide. Pathnet agrees that GTE may implement such practices to satisfy any GTE obligations under this Agreement.

25. Headings.

The headings in this Agreement are inserted for convenience and identification only and shall not be considered in the interpretation of this Agreement.

26. Independent Contractor Relationship.

The persons provided by each Party shall be solely that Party's employees and shall be under the sole and exclusive direction and control of that Party. They shall not be considered employees of the other Party for any purpose. Each Party shall remain an independent contractor with respect to the other and shall be responsible for compliance with all laws, rules and regulations involving, but

not limited to, employment of labor, hours of labor, health and safety, working conditions and payment of wages. Each Party shall also be responsible for payment of taxes, including federal, state and municipal taxes, chargeable or assessed with respect to its employees, such as Social Security, unemployment, workers' compensation, disability insurance, and federal and state withholding. Each Party shall indemnify the other for any loss, damage, liability, claim, demand, or penalty that may be sustained by reason of its failure to comply with this provision.

27. Law Enforcement Interface.

27.1 Except to the extent not available in connection with GTE's operation of its own business, GTE shall provide seven day a week/twenty-four hour a day assistance to law enforcement persons for emergency traps, assistance involving emergency traces and emergency information retrieval on customer invoked CLASS services.

27.2 GTE agrees to work jointly with Pathnet in security matters to support law enforcement agency requirements for taps, traces, court orders, etc. Charges for providing such services for Pathnet customers will be billed to Pathnet.

27.3 GTE will, in non emergency situations, inform the requesting law enforcement agencies that the end-user to be wire tapped, traced, etc. is a Pathnet Customer and shall refer them to Pathnet.

27.4 Subsequent to the execution and approval of this Agreement by the Commission, the parties shall establish a separate contract or authorization agreement specific to the Nuisance Call Bureau (NCB) and Security Control Center (SCC) for CLEC procedures which will be in compliance with applicable state and federal laws.

28. Liability and Indemnity.

28.1 Indemnification.

Subject to the limitations set forth in Section 28.4 of this Article III, each Party agrees to release, indemnify, defend, and hold harmless the other Party from all losses, claims, demands, damages, expenses, suits, or other actions, or any liability whatsoever, including, but not limited to, costs and attorney's fees, whether suffered, made, instituted, or asserted by any other party or person, for invasion of privacy, personal injury to or death of any person or persons, or for losses, damages, or destruction of property, whether or not owned by others, proximately caused by the indemnifying Party's negligence or willful misconduct, regardless of form of action. The indemnified Party agrees to notify the other Party promptly, in writing, of any written claims, lawsuits, or demands for which it is claimed that the indemnifying Party is responsible under this Section and to cooperate in every reasonable way to facilitate defense or settlement of claims. The indemnifying Party shall have complete control over defense of the case and over the terms of any proposed settlement or compromise thereof. The indemnifying Party shall not be liable under this Section for settlement by the indemnified Party or any claim, lawsuit, or demand, if the indemnifying Party has not approved the settlement in advance, unless the indemnifying Party has had the defense of the claim, lawsuit, or demand tendered to it in writing and has failed to assume such defense. In the event of such failure to assume defense, the indemnifying Party shall be liable for any reasonable settlement made by the indemnified Party without approval of the indemnifying Party.

28.2 End-User and Content-Related Claims.

The Indemnifying Party agrees to release, indemnify, defend, and hold harmless the other Party, its affiliates, and any third-party provider or operator of facilities involved in the provision of services, UNEs or Facilities under this Agreement (collectively, the "Indemnified

Party") from all losses, claims, demands, damages, expenses, suits, or other actions, or any liability whatsoever, including, but not limited to, costs and attorney's fees, suffered, made, instituted, or asserted by the Indemnifying Party's end-users against an Indemnified Party arising from Services, UNEs or Facilities. The Indemnifying Party further agrees to release, indemnify, defend, and hold harmless the Indemnified Party from all losses, claims, demands, damages, expenses, suits, or other actions, or any liability whatsoever, including, but not limited to, costs and attorney's fees, suffered, made, instituted, or asserted by any third party against an Indemnified Party arising from or in any way related to actual or alleged defamation, libel, slander, interference with or misappropriation of proprietary or creative right, or any other injury to any person or property arising out of content transmitted by the Indemnifying Party and the Indemnified Party or such Party's end-users, or any other act or omission of the Indemnified Party or such Party's end-users.

28.3 DISCLAIMER.

EXCEPT AS SPECIFICALLY PROVIDED TO THE CONTRARY IN THIS AGREEMENT, PROVIDER MAKES NO REPRESENTATIONS OR WARRANTIES TO CUSTOMER CONCERNING THE SPECIFIC QUALITY OF ANY SERVICES, UNEs OR FACILITIES PROVIDED UNDER THIS AGREEMENT. PROVIDER DISCLAIMS, WITHOUT LIMITATION, ANY WARRANTY OR GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR FROM USAGES OF TRADE.

28.4 Limitation of Liability.

Each Party's liability, whether in contract, tort or otherwise, shall be limited to direct damages, which shall not exceed the monthly charges, plus any related costs/expenses GTE may recover, including those under Section 17 above, and plus any costs/expenses for which the Parties specify reimbursement in this Agreement for the services or facilities for the month during which the claim of liability arose. Under no circumstance shall either Party be responsible or liable for indirect, incidental, or consequential damages, including, but not limited to, economic loss or lost business or profits, damages arising from the use or performance of equipment or software, or the loss of use of software or equipment, or any accessories attached thereto, delay, error, or loss of data. Should either Party provide advice, make recommendations, or supply other analysis related to the services or facilities described in this Agreement, this limitation of liability shall apply to provision of such advice, recommendations, and analysis.

28.5 Intellectual Property.

Neither Party shall have any obligation to defend, indemnify or hold harmless, or acquire any license or right for the benefit of, or owe any other obligation or have any liability to, the other based on or arising from any claim, demand, or proceeding by any third party alleging or asserting that the use of any circuit, apparatus, or system, or the use of any software, or the performance of any service or method, or the provision or use of any facilities by either Party under this Agreement constitutes direct or contributory infringement, or misuse or misappropriation of any patent, copyright, trademark, trade secret, or any other proprietary or intellectual property right of any third party.

29. Multiple Counterparts.

This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, but all of which shall together constitute but one and the same document.

30. No Third Party Beneficiaries.

Except as may be specifically set forth in this Agreement, this Agreement does not provide and shall not be construed to provide third parties with any remedy, claim, liability, reimbursement, cause of action, or other right or privilege.

31. Notices.

Any notice to a Party required or permitted under this Agreement shall be in writing and shall be deemed to have been received on the date of service if served personally, on the date receipt is acknowledged in writing by the recipient if delivered by regular U.S. mail, or on the date stated on the receipt if delivered by certified or registered mail or by a courier service that obtains a written receipt. Upon prior immediate oral agreement of the parties' designated recipients identified below, notice may also be provided by facsimile, Internet or electronic messaging system, which shall be effective if sent before 5:00 p.m. on that day, or if sent after 5:00 p.m. it will be effective on the next Business Day following the date sent. Any notice shall be delivered using one of the alternatives mentioned in this section and shall be directed to the applicable address or Internet ID indicated below or such address as the Party to be notified has designated by giving notice in compliance with this section:

If to GTE:GTE South Incorporated
Attention: Assistant Vice President/Associate General Counsel
Service Corporation
600 Hidden Ridge - HQEWMNOTICES
Irving, TX 75038
Telephone number: 972/718-6361
Facsimile number: 972/718-3403
Internet Address: wmnotices@telops.gte.com

and

GTE South Incorporated
Attention: Assistant Vice President/Associate General
Attn: Director-Wholesale Contract Compliance
Network Services
600 Hidden Ridge - HQEWMNOTICES
Irving, TX 75038
Telephone Number: 972/718-5988
Facsimile Number: 972/719-1519
Internet Address: wmnotices@telops.gte.com

If to Pathnet: Pathnet, Inc.
Attention: J.Alfred Baird and Mike Lubin
11720 Sunrise Valley Drive
B-Level
Reston VA 20191
Telephone number: 703 390-1000
Facsimile number: 703 860-8127
Internet Address: abaird@pathnet.net
mlubin@pathnet.net

32. Protection.

32.1 Impairment of Service.

The characteristics and methods of operation of any circuits, facilities or equipment of either Party connected with the services, facilities or equipment of the other Party pursuant

to this Agreement shall not interfere with or impair service over any facilities of the other Party, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to its plant, violate any applicable law or regulation regarding the invasion of privacy of any communications carried over the Party's facilities or create hazards to the employees of either Party or to the public (each hereinafter referred to as an "Impairment of Service").

32.2 Resolution.

If either Party causes an Impairment in Service, the Party whose network or service is being impaired (the "Impaired Party") shall promptly notify the Party causing the Impairment of Service (the "Impairing Party") of the nature and location of the problem and that, unless promptly rectified, a temporary discontinuance of the use of any circuit, facility or equipment may be required. The Impairing Party and the Impaired Party agree to work together to attempt to promptly resolve the Impairment of Service. If the Impairing Party is unable to promptly remedy the Impairment of Service, then the Impaired Party may at its option temporarily discontinue the use of the affected circuit, facility or equipment.

33. Publicity.

Prior to approval of this document by the Commission, any news release, public announcement, advertising, or any form of publicity pertaining to this Agreement, provision of Services, UNEs or Facilities pursuant to it, or association of the Parties with respect to provision of the services described in this Agreement shall be subject to prior written approval of both GTE and Pathnet.

34. Regulatory Agency Control.

This Agreement shall at all times be subject to changes, modifications, orders, and rulings by the Federal Communications Commission and/or the applicable state utility regulatory commission to the extent the substance of this Agreement is or becomes subject to the jurisdiction of such agency.

35. Changes in Legal Requirements.

GTE and Pathnet further agree that the terms and conditions of this Agreement were composed in order to effectuate the legal requirements in effect at the time the Agreement was produced. Any modifications to those requirements will be deemed to automatically supersede any terms and conditions of this Agreement.

36. Effective Date.

This Agreement will be effective only upon execution by both Parties and approval by the Commission in accordance with Section 252 of the Act. The "effective date" of this Agreement for all purposes will be as established by the Commission approval order. The Parties agree orders for services will not be submitted or accepted within the first ten (10) business days after the agreement is effective.

37. Regulatory Matters.

Each Party shall be responsible for obtaining and keeping in effect all FCC, state regulatory commission, franchise authority and other regulatory approvals that may be required in connection with the performance of its obligations under this Agreement.

If either Party does not provide necessary filing materials within 90 days of execution of this Agreement, any contract signatures will no longer be effective. If both Parties determine to proceed with filing, negotiations between the Parties will resume.

38. Rule of Construction.

The Parties hereto represent that they have the technical, managerial and financial capability to negotiate and enter into this Agreement. The Parties further represent they have retained competent counsel, or have the right to use competent counsel, and accordingly have negotiated and executed this Agreement fully informed of their respective rights, remedies and obligations hereunder. The above provision has been modified only because GTE understands that the Commission requires this provision to be modified. In the past, the Commission has rejected all contracts GTE has previously submitted without this modification and ordered that this modification be included in the Agreement. However, in light of the standards for approval of negotiated interconnection agreements set forth in Section 252(e)(2)(A) of the Act, GTE believes that the Commission lacks authority to reject this Agreement because it does not include this modification. Therefore, GTE reserves the right to challenge the necessity and appropriateness of this modification in the future.

39. Section References.

Except as otherwise specified, references within an Article of this Agreement to a Section refer to Sections within that same Article.

40. OSS Performance Measurements.

- 40.1 The Parties will provide a level of service to each other with respect to services and facilities under this Agreement in compliance with the non-discrimination requirements of the Act.
- 40.2 The performance measurements detail the areas of performance to be tracked, reported and audited. GTE will make available monthly performance measurement data via the internet on GTE's WISE website. The results of these performance measurements shall be used to indicate the level of quality of service GTE provides to Pathnet and satisfies GTE's obligations under the Act or state law. Furthermore, GTE expects to satisfy requirements for reporting and auditing as may be mandated by state law.
- 40.3 Performance measurements to measure quality of service are provisional and subject to continued evolution as driven by the industry and state commissions. Performance measurements, when developed and implemented on GTE's WISE website (<http://www.gte.com/wise>), shall be made available to Pathnet and shall automatically modify and/or replace existing performance measurements GTE currently makes available to all CLECs.
- 40.4 GTE's performance measurements are made available on a nationwide basis to all qualifying CLECs. Such performance measurements provide for standards to measure the quality of services, elements or functions offered by GTE within the following major categories:
- (a) Pre-ordering activities relate to the exchange of information between GTE and the CLEC regarding current or proposed customer products and services, or any other information required to initiate ordering of service. Pre-ordering encompasses the critical information needed to submit a provisioning order from the CLEC to GTE. The pre-order measurement reports the timeliness with which pre-order inquiries are returned to CLECs by GTE.
 - (b) Ordering activities include the exchange of information between GTE and the CLEC regarding requests for service. Ordering includes: (1) the submittal of the service request from the CLEC, (2) rejection of any service request with errors and (3) confirmation that a valid service request has been received and a due date for the request assigned. Ordering performance measurements report on the timeliness with which these various activities are completed by GTE. Also captured within

this category is reporting on the number of CLEC service requests that automatically generate a service order in GTE's service order creation system.

- (c) Provisioning is the set of activities required to install, change or disconnect a customer's service. It includes the functions to establish or condition physical facilities as well as the completion of any required software translations to define the feature functionality of the service. Provisioning also involves communication between the CLEC and GTE on the status of a service order, including any delay in meeting the commitment date and the time at which actual completion of service installation has occurred. Measurements in this category evaluate the quality of service installations, the efficiency of the installation process and the timeliness of notifications to the CLEC that installation is completed or has been delayed.
- (d) Maintenance involves the repair and restoral of customer service. Maintenance functions include the exchange of information between GTE and CLEC related to service repair requests, the processing of trouble ticket requests by GTE, actual service restoral and tracking of maintenance history. Maintenance measures track the timeliness with which trouble requests are handled by GTE and the effectiveness and quality of the service restoral process.
- (e) Network performance involves the level at which GTE provides services and facilitates call processing within its network. GTE also has the responsibility to complete network upgrades efficiently. If network outages do occur, GTE needs to provide notification so appropriate network management and customer notification can occur by CLECs. Network performance is evaluated on the quality of interconnection, the timeliness of notification of network outages and the timeliness of network upgrades (code openings) GTE completes on behalf of the CLEC.
- (f) Billing involves the exchange of information necessary for CLECs to bill its customers, to process the end user's claims and adjustments, to verify GTE's bill for services provided to the CLEC and to allow CLECs to bill for access. Billing measures have been designed to gauge the quality, timeliness and overall effectiveness of GTE billing processes associated with CLEC customers.
- (g) Collocation: GTE is required to provide to CLECs available space as required by law to allow the installation of CLEC equipment. Performance measures in this category assess the timeliness with which GTE handles the CLEC's request for collocation as well as how timely the collocation arrangement is provided.
- (h) Database updates for directory assistance/listings and E911 include the processes by which these systems are updated with customer information which has changed due to the service provisioning activity. Measurements in this category are designed to evaluate the timeliness and accuracy with which changes to customer information, as submitted to these databases, are completed by GTE.
- (i) Interfaces: GTE provides the CLECs with choices for access to OSS pre-ordering, ordering, maintenance and repair systems. Availability of the interfaces is fundamental to the CLEC being able to effectively do business with GTE. Additionally, in many instances, CLEC personnel must work with the service personnel of GTE. Measurements in this category assess the availability to the CLECs of systems and personnel at GTE work centers.

41. Severability.

If any provision of this Agreement is held by a court or regulatory agency of competent jurisdiction to be unenforceable, the rest of the Agreement shall remain in full force and effect and shall not be affected unless removal of that provision results, in the reasonable position of either Party, in a material change to this Agreement. If a material change as described in this paragraph occurs as a result of action by a court or regulatory agency, the Parties shall negotiate in good faith for replacement language. If replacement language cannot be agreed upon within a reasonable period, either Party may terminate this Agreement without penalty or liability for such termination upon written notice to the other Party or follow dispute resolution process set forth in Section 18.

42. Subcontractors.

Provider may enter into subcontracts with third parties or affiliates for the performance of any of Provider's duties or obligations under this Agreement.

43. Subsequent Law.

The terms and conditions of this Agreement shall be subject to any and all applicable laws, rules, or regulations that subsequently may be prescribed by any federal, state or local governmental authority. To the extent required by any such subsequently prescribed law, rule, or regulation, the Parties agree to modify, in writing, the affected term(s) and condition(s) of this Agreement to bring them into compliance with such law, rule, or regulation.

44. Taxes.

Any state or local excise, sales, or use taxes (excluding any taxes levied on income) resulting from the performance of this Agreement shall be borne by the Party upon which the obligation for payment is imposed under applicable law, even if the obligation to collect and remit such taxes is placed upon the other Party. The collecting Party shall charge and collect from the obligated Party, and the obligated Party agrees to pay to the collecting Party, all applicable taxes, except to the extent that the obligated Party notifies the collecting Party and provides to the collecting Party appropriate documentation as GTE requires that qualifies the obligated Party for a full or partial exemption. Any such taxes shall be shown as separate items on applicable billing documents between the Parties. The obligated Party may contest the same in good faith, at its own expense, and shall be entitled to the benefit of any refund or recovery, provided that such Party shall not permit any lien to exist on any asset of the other Party by reason of the contest. The collecting Party shall cooperate in any such contest by the other Party. The other Party will indemnify the collecting Party from any sales or use taxes that may be subsequently levied on payments by the other Party to the collecting Party.

44.1 Tax.

A charge which is statutorily imposed by the state or local jurisdiction and is either (a) imposed on the seller with the seller having the right or responsibility to pass the charge(s) on to the purchaser and the seller is responsible for remitting the charge(s) to the state or local jurisdiction or (b) imposed on the purchaser with the seller having an obligation to collect the charge(s) from the purchaser and remit the charge(s) to the state or local jurisdiction.

Taxes shall include but not be limited to: federal excise tax, state/local sales and use tax, state/local utility user tax, state/local telecommunication excise tax, state/local gross receipts tax, and local school taxes. Taxes shall not include income, income-like, gross receipts on the revenue of a Provider, or property taxes. Taxes shall not include payroll withholding taxes unless specifically required by statute or ordinance.

44.2 Fees/Regulatory Surcharges.

A charge imposed by a regulatory authority, other agency, or resulting from a contractual obligation, in which the seller is responsible or required to collect the fee/surcharge from the purchaser and the seller is responsible for remitting the charge to the regulatory authority, other agency, or contracting party.

Fees/Regulatory Surcharges shall include but not be limited to E-911/911, E311/311, franchise fees, and Commission surcharges.

45. Trademarks and Trade Names.

Except as specifically set out in this Agreement, nothing in this Agreement shall grant, suggest, or imply any authority for one Party to use the name, trademarks, service marks, or trade names of the other for any purpose whatsoever.

46. Waiver.

The failure of either Party to insist upon the performance of any provision of this Agreement, or to exercise any right or privilege granted to it under this Agreement, shall not be construed as a waiver of such provision or any provisions of this Agreement, and the same shall continue in full force and effect.

47. Environmental Responsibility.

47.1 Pathnet is responsible for compliance with all laws regarding the handling, use, transport, storage, and disposal of, and for all hazards created by and damages or injuries caused by, any materials brought to or used at the Facility by Pathnet. In accordance with Section 47.10, Pathnet will indemnify GTE for all claims, fees, penalties, damages, and causes of action with respect to these materials. No substantial new safety or environmental hazards shall be created or new hazardous substances shall be used at a GTE Facility. Pathnet must demonstrate adequate training and emergency response capabilities related to materials brought to, used, or existing at the GTE Facility.

47.2 Pathnet, its invitees, agents, employees, and contractors agree to comply with such reasonable environmental or safety practices/procedures, whether or not required by law, as requested by GTE when working at a GTE Facility. The Parties acknowledge and agree that nothing in this Agreement or in any of GTE's practices/procedures constitutes a warranty or representation by GTE that Pathnet's compliance with GTE's practices/procedures, with this Agreement, or with GTE's directions or recommendations will achieve compliance with any applicable law. Pathnet is responsible for ensuring that all activities conducted by Pathnet at the Facility are in accordance with all applicable federal, state, and local laws, regulations, permits, and agency orders, approvals, and authorizations relating to safety, health, and the environment.

47.3 GTE and Pathnet shall provide to each other notice of known and recognized physical hazards or hazardous substances brought to, used, or existing at the GTE Facility. Each Party is required to promptly provide specific notice of conditions or circumstances potentially posing a threat of imminent danger, including, by way of example only, a defective utility pole or significant petroleum contamination in a manhole.

47.4 Pathnet shall obtain and use its own environmental permits, approvals, or identification numbers to the extent that such permits, approvals, or identification numbers are required under applicable laws. If the relevant regulatory authority refuses to issue a separate permit, approval, or identification number to Pathnet after a complete and proper request by Pathnet for same, then GTE's permit, approval, or identification number may be used as authorized by law and upon prior approval by GTE. In that case, Pathnet must comply with

all of GTE's environmental, health, and safety practices/procedures relating to the activity in question, including, but not limited to, use of environmental "best management practices (BMP)" and selection criteria for vendors and disposal sites. The Parties acknowledge and agree that nothing in this Agreement, use of GTE's permits, approvals, or identification numbers, or compliance with GTE's practices/procedures constitutes a representation or warranty that Pathnet's activities will be in compliance with applicable laws, and such compliance or use of GTE's permits, approvals, or identification numbers creates no right of action against GTE.

- 47.5 If Third Party Contamination is discovered at a GTE Facility, the Party uncovering the contamination must timely notify the proper safety or environmental authorities, to the extent that such notification is required by applicable law. If Pathnet discovers Third Party Contamination, Pathnet will immediately notify GTE and will consult with GTE prior to making any required notification, unless the time required for prior consultation would preclude Pathnet from complying with an applicable reporting requirement.
- 47.6 GTE and Pathnet shall coordinate plans or information required to be submitted to government agencies, such as, by way of example only, emergency response plans and chemical inventory reporting. If fees are associated with such filings, GTE and Pathnet must develop a cost sharing procedure.
- 47.7 When conducting operations in any GTE manhole or vault area, Pathnet shall follow appropriate practices/procedures in evaluating and managing any water, sediment, or other material present in the manhole or vault area so as to ensure compliance with all applicable laws, regulations, permits, and requirements applicable in such circumstances and to ensure safe practices. Pathnet shall be responsible for obtaining any permit, regulatory approval, or identification number necessary for any of its operations involving the evaluation, collection, discharge, storage, disposal, or other management of water, sediment, or other material present in a GTE manhole or vault area. GTE shall not be responsible for any costs incurred by Pathnet in meeting its obligations under this Section.
- 47.8 Pathnet shall provide reasonable and adequate compensation to GTE for any additional or increased costs associated with compliance with any federal, state, or local law, regulation, permit, or agency requirement related to safety, health, or the environment where such additional or increased cost is incurred as a result of providing Pathnet with interconnection or collocation, including, but not limited to, costs associated with obtaining appropriate permits or agency authorizations or approvals, remediation or response to any release or threatened release of any regulated substance, investigation or testing related, and training or notification requirements.
- 47.9 Activities impacting safety or the environment of a Right of Way (ROW) must be harmonized with the specific agreement and the relationship between GTE and the land owner. In this regard, Pathnet must comply with any limitations associated with a ROW, including, but not limited to, limitations on equipment access due to environmental conditions (e.g., wetland areas having equipment restrictions).
- 47.10 Notwithstanding Section 27, with respect to environmental responsibility under this Section 47, GTE and Pathnet shall each indemnify, defend, and hold harmless the other Party from and against any claims (including, without limitation, third-party claims for personal injury or real or personal property damage), judgments, damages (including direct and indirect damage and punitive damages), penalties, fines, forfeitures, cost, liabilities, interest and losses arising from or in connection with (a) the indemnifying Party's negligent or willful misconduct, regardless of form; (b) the violation or alleged violation of any federal, state, or local law, regulation, permit, or agency requirement relating to safety, health, or the environment; or (c) the presence or alleged presence of contamination arising out of the indemnifying Party's acts or omissions concerning its operations at the GTE Facility.

48. TBD Prices.

Numerous provisions in this Agreement and its Attachments refer to pricing principles. If a provision references prices in an Attachment and there are no corresponding prices in such Attachment, such price shall be considered "To Be Determined" (TBD). With respect to all TBD prices, prior to Pathnet ordering any such TBD item, the Parties shall meet and confer to establish a price. If the Parties are unable to reach agreement on a price for such item, an interim price shall be set for such item that is equal to the price for the nearest analogous item for which a price has been established (for example, if there is not an established price for a non recurring charge (NRC) for a specific UNE, the Parties would use the NRC for the most analogous retail service for which there is an established price). Any interim prices so set shall be subject to modification by any subsequent decision of the Commission. If an interim price is different from the rate subsequently established by the Commission, any underpayment shall be paid by Pathnet to GTE, and any overpayment shall be refunded by GTE to Pathnet, within 45 Business Days after the establishment of the price by the Commission.

ARTICLE IV
GENERAL RULES GOVERNING RESOLD SERVICES
AND UNBUNDLED ELEMENTS

1. General.

General regulations, terms and conditions governing rate applications, technical parameters, service availability, definitions and feature interactions, as described in the appropriate GTE intrastate local, toll and access tariffs, apply to retail services made available by GTE to Pathnet for resale and UNEs provided by GTE to Pathnet, when appropriate, unless otherwise specified in this Agreement.

As applied to services or UNEs offered under this Agreement, the term "Customer" contained in the GTE Retail Tariff shall be deemed to mean "Pathnet" as defined in this Agreement.

2. Liability of GTE.

2.1 Inapplicability of Tariff Liability.

GTE's general liability, as described in the GTE Retail Tariff, does not extend to Pathnet's customers or any other third party. Liability of GTE to Pathnet resulting from any and all causes arising out of services, facilities, UNEs or any other items relating to this Agreement shall be governed by the liability provisions contained in this Agreement and no other liability whatsoever shall attach to GTE. GTE shall be liable for the individual services, facilities or elements that it separately provides to Pathnet and shall not be liable for the integration of components combined by Pathnet.

2.2 Pathnet Tariffs or Contracts.

Nothing in Pathnet's tariffs or other contracts for services provided to its end-users using services, facilities, or UNEs obtained from GTE shall provide that GTE is liable to Pathnet's end-users or any third parties for any indirect, special or consequential damages, including, but not limited to, economic loss or lost business or profits, whether foreseeable or not, and regardless of notification by Pathnet of the possibility of such damages and Pathnet shall indemnify and hold GTE harmless from any and all claims, demands, causes of action and liabilities based on any reason whatsoever from its customers as provided in this Agreement. Nothing in this Agreement shall be deemed to create a third-party beneficiary relationship with Pathnet's end-users.

2.3 No Liability for Errors.

GTE is not liable for mistakes that appear in GTE's listings, 911 and other information databases, or for incorrect referrals of end-users to Pathnet for any ongoing Pathnet service, sales or repair inquiries, and with respect to such mistakes or incorrect referrals, Pathnet shall indemnify and hold GTE harmless from any and all claims, demands, causes of action and liabilities whatsoever, including costs, expenses and reasonable attorney's fees incurred on account thereof, by third parties, including Pathnet's end-users or employees. For purposes of this Section 2.3, mistakes and incorrect referrals shall not include matters arising out of the willful misconduct of GTE or its employees or agents.

3. Unauthorized Changes.

3.1 Procedures.

If Pathnet submits an order for resold services or unbundled elements under this Agreement in order to provide service to an end-user that at the time the order is submitted is obtaining its local services from GTE or another LEC using GTE resold services or unbundled

elements, and the end-user notifies GTE that the end-user did not authorize Pathnet to provide local exchange services to the end-user, Pathnet must provide GTE with written documentation of authorization from that end-user within thirty (30) Business Days of notification by GTE. If Pathnet cannot provide written documentation of authorization within such time frame, Pathnet must within three (3) Business Days thereafter:

- (a) notify GTE to change the end-user back to the LEC providing service to the end-user before the change to Pathnet was made; and
- (b) provide any end-user information and billing records Pathnet has obtained relating to the end-user to the LEC previously serving the end-user; and
- (c) notify the end-user and GTE that the change back to the previous LEC has been made.

Furthermore, GTE will bill Pathnet fifty dollars (\$50.00) per affected line to compensate GTE for switching the end-user back to the original LEC.

4. Impact of Payment of Charges on Service.

Pathnet is solely responsible for the payment of all charges for all services, facilities and elements furnished under this Agreement, including, but not limited to, calls originated or accepted at its or its end-users' service locations. If Pathnet fails to pay when due any and all charges billed to Pathnet under this Agreement, including any late payment charges (collectively, "Unpaid Charges"), and any or all such charges remain unpaid more than forty-five (45) calendar days after the bill date of such Unpaid Charges excepting previously disputed charges for which Pathnet may withhold payment, GTE shall notify Pathnet in writing that it must pay all Unpaid Charges to GTE within seven (7) Business Days. If Pathnet disputes the billed charges, it shall, within said seven (7) day period, inform GTE in writing of which portion of the Unpaid Charges it disputes, including the specific details and reasons for the dispute, unless such reasons have been previously provided, and shall immediately pay to GTE all undisputed charges. If Pathnet and GTE are unable, within thirty (30) Business Days thereafter, to resolve issues related to the disputed charges, then either Pathnet or GTE may file a request for arbitration under Article III of this Agreement to resolve those issues. Upon resolution of any dispute hereunder, if Pathnet owes payment it shall make such payment to GTE with any late payment charge under Article III, Section 10.3, from the original payment due date. If Pathnet owes no payment, but has previously paid GTE such disputed payment, then GTE shall credit such payment including any late payment charges. If Pathnet fails to pay any undisputed Unpaid Charges, Pathnet shall, at its sole expense, within five (5) Business Days notify its end-users that their service may be disconnected for Pathnet's failure to pay Unpaid Charges, and that its end-users must select a new provider of local exchange services. GTE may discontinue service to Pathnet upon failure to pay undisputed charges as provided in this Section 4, and shall have no liability to Pathnet or Pathnet's end-users in the event of such disconnection. If Pathnet fails to provide such notification or any of Pathnet's end-users fail to select a new provider of services within the applicable time period, GTE may provide local exchange services to Pathnet's end-users under GTE's applicable end-user tariff at the then current charges for the services being provided. In this circumstance, otherwise applicable service establishment charges will not apply to Pathnet's end-user, but will be assessed to Pathnet.

5. Unlawful Use of Service.

Services, facilities or unbundled elements provided by GTE pursuant to this Agreement shall not be used by Pathnet or its end-users for any purpose in violation of law. Pathnet, and not GTE, shall be responsible to ensure that Pathnet and its end-users use of services, facilities or unbundled elements provided hereunder comply at all times with all applicable laws. GTE may refuse to furnish service to Pathnet or disconnect particular services, facilities or unbundled elements

provided under this Agreement to Pathnet or, as appropriate, Pathnet's end-user when (i) an order is issued by a court of competent jurisdiction finding that probable cause exists to believe that the use made or to be made of the service, facilities or unbundled elements is prohibited by law or (ii) GTE is notified in writing by a law enforcement agency acting within its jurisdiction that any facility furnished by GTE is being used or will be used for the purpose of transmitting or receiving gambling information in interstate or foreign commerce in violation of law. Termination of service shall take place after reasonable notice is provided to Pathnet, or as ordered by the court. If facilities have been physically disconnected by law enforcement officials at the premises where located, and if there is not presented to GTE the written finding of a court, then upon request of Pathnet and agreement to pay restoral of service charges and other applicable service charges, GTE shall promptly restore such service.

6. Timing of Messages.

With respect to GTE resold measured rate local service(s), chargeable time begins when a connection is established between the calling station and the called station. Chargeable time ends when the calling station "hangs up," thereby releasing the network connection. If the called station "hangs up" but the calling station does not, chargeable time ends when the network connection is released by automatic timing equipment in the network. Timing of messages applicable to GTE's Port and Local Switching element (usage sensitive services) will be recorded based on originating and terminating access.

7. Procedures For Preordering, Ordering, Provisioning, Etc.

Certain procedures for preordering, ordering, provisioning, maintenance and billing and electronic interfaces for many of these functions are governed by the GTE Guide. In accordance with Article III, Section 7, GTE will not process resale or unbundled network element orders until the Pathnet Profile has been completed and returned; and, if required, an advanced deposit paid.

8. Letter of Authorization

- 8.1 GTE will not release the Customer Service Record (CSR) containing Customer Proprietary Network Information (CPNI) to Pathnet on GTE end-user customer accounts unless Pathnet first provides to GTE a written Letter of Authorization (LOA). Such LOA may be a blanket LOA or other form agreed upon between GTE and Pathnet authorizing the release of such information to Pathnet or if state or federal law provides otherwise, in accordance with such law.
- 8.2 An (LOA) will be required before GTE will process an order for Services provided in cases in which the subscriber currently receives Exchange Service from GTE or from a local service provider other than Pathnet. Such LOA may be a blanket LOA or such other form as agreed upon between GTE and Pathnet.
- 8.3 Notwithstanding the FCC's Second Report and Order, dated December 17, 1998, CC Docket 94-129, which as of the date of the execution of this Agreement has been stayed for purposes of considering the use of a third party administrator, a LOA will be required while the Commission is in the process and finally does adopt such FCC Slamming Rules, and until the stay is lifted and ruled upon. After the stay is lifted, and the Commission adopts its slamming rules accordingly, if the order of a court of competent jurisdiction reverses the FCC's rules on slamming or otherwise modifies them, then in such case, GTE shall at that time comply with the new FCC Order, Court Order, or other filing or decision regarding slamming.

9. Customer Contacts.

Except as otherwise provided in this Agreement or as agreed to in a separate writing by Pathnet, Pathnet shall provide the exclusive interface with Pathnet's end-user customers in connection with the marketing or offering of Pathnet services. Except as otherwise provided in this Agreement, in those instances in which GTE personnel are required pursuant to this Agreement to interface directly with Pathnet's end-users, such personnel shall not identify themselves as representing GTE. All forms, business cards or other business materials furnished by GTE to Pathnet end-users shall be generic in nature. In no event shall GTE personnel acting on behalf of Pathnet pursuant to this Agreement provide information to Pathnet end-users about GTE products or services unless otherwise authorized by Pathnet. And in no event shall GTE personnel having contact with PATHNET customers make disparaging comments about Pathnet's services or operations.

ARTICLE V

INTERCONNECTION AND TRANSPORT AND TERMINATION OF TRAFFIC

1. Services Covered by This Article.

1.1 Types of Services.

This Article governs the provision of internetwork facilities (i.e., physical interconnection services and facilities), Meet-Point Billing (MPB) by GTE to Pathnet or by Pathnet to GTE and the transport and termination and billing of Local, IntraLATA Toll, optional EAS traffic and jointly provided Interexchange Carrier (IXC) access between GTE and Pathnet. The services and facilities described in this Article shall be referred to in this Article V as the "Services."

1.1.1 Pathnet initiates orders for trunk-side interconnection services by sending an ASR to GTE. Pathnet should submit ASRs to GTE through on-line applications or electronic files (or via facsimile until on-line or electronic bonding has been completed and tested). The ordering process is described in the GTE Guide. The ASR will be reviewed by GTE for validation and correction of errors. Errors will be referred back to Pathnet. Pathnet then will correct any errors that GTE has identified and resubmit the request to GTE electronically through a supplemental ASR.

2. Billing and Rates.

2.1 Service Ordering, Service Provisioning, and Billing.

Pathnet will order services for interim number portability, directly from GTE through an electronic interface or fax. The following describes generally the processes GTE will use for ordering, provisioning and billing for interconnection facilities and services. Except as specifically provided otherwise in this Agreement, service ordering, provisioning, billing and maintenance shall be governed by the GTE Guide.

2.2 Rates and Charges.

Customer agrees to pay to Provider the rates and charges for the Services set forth in the applicable appendices to this Agreement. GTE's rates and charges are set forth in Appendix A attached to this Agreement and made a part hereof. Pathnet's separate rates and charges are also set forth in Appendix A attached hereto and made a part hereof.

2.3 Billing.

Provider shall render to Customer a bill for interconnection services on a current basis. Charges for physical facilities and other non-usage sensitive charges shall be billed in advance, except for charges and credits associated with the initial or final bills. Usage sensitive charges, such as charges for termination of Local Traffic, shall be billed in arrears. Pathnet is required to order trunks pursuant to Section 4.3.3 of this Article.

2.4 Billing Specifications.

The Parties agree that billing requirements and outputs will be consistent with the Telcordia Technologies Billing Output Specifications (BOS).

2.4.1 Usage Measurement: Usage measurement for calls shall begin when Answer Supervision or equivalent Signaling System 7 (SS7) message is received from the

terminating office and shall end at the time of call disconnect by the calling or called subscriber, whichever occurs first.

- 2.4.2 Minutes of use (MOU), or fractions thereof, shall not be rounded upward on a per-call basis, but will be accumulated over the billing period. At the end of the billing period, any remaining fraction shall be rounded up to the nearest whole minute to arrive at total billable minutes for each interconnection. MOU shall be collected and measured in minutes, seconds, and tenths of seconds.

3. Transport and Termination of Traffic.

3.1 Traffic to be Exchanged.

The Parties shall reciprocally terminate Local, IntraLATA Toll, optional EAS and jointly provided IXC traffic (or other traffic the Parties agree to exchange) originating on each other's networks utilizing either Direct or Indirect Network Interconnections as provided in Section 4 or Section 5 herein. To this end, the Parties agree that there will be interoperability between their networks. The Parties agree to exchange traffic associated with third party LECs, CLECs and Wireless Service Providers pursuant to the compensation arrangement specified in Section 3.2 herein. In addition, the Parties will notify each other of any anticipated change in traffic to be exchanged (e.g., traffic type, volume).

3.2.1 [This section intentionally deleted]

- 3.2.2 Bill-and-Keep. The Parties shall assume that Local Traffic originated by or terminating to the Parties' end-user customers is roughly balanced between the parties. Accordingly, the Parties agree to use a Bill-and-Keep Arrangement with respect to termination of Local Traffic and Internet Service Provider (ISP) traffic only. Nothing in this Section 3.2.2 shall be interpreted to (i) change compensation set forth in this Agreement for traffic or services other than Local Traffic and Internet Service Provider traffic, including but not limited to internetwork facilities, access traffic or wireless traffic, or (ii) allow either Party to aggregate traffic other than Local Traffic for the purpose of compensation under the Bill-and-Keep Arrangement described in this Section 3.2.2, except as set forth in Section 3.1 above. The Parties agree to abide by Commission or FCC rules regarding the exchange of traffic should such rules be changed.

- 3.2.3 Compensation for Terminating Access Charges on Calls to Ported Numbers. The Parties agree that a meet point billing arrangement will be used to bill for terminating switched access charges associated with calls terminated to a ported number. Each Party will bill the IXCs applicable switched access rate elements for functions provided over each respective Party's facilities. The Parties will follow any industry standards established for call record exchanges for meet point billing. Until industry standards for call record exchanges are established for interim number portability, the Parties agree that switched access termination to a ported number will be billed by the party providing interim number portability and that the party billing the switched access will share the switched access revenue with the other Party. The Party providing interim number portability is entitled to keep the portion of collected access revenue associated with tandem switching, transport, and residual/transport interconnection charge rate elements, as applicable. The party terminating ported calls is entitled to receive the portion of collected access revenue associated with the end office switching rate elements. As part of this revenue sharing arrangement, the Parties agree to compensate each other as specified in Appendix B.

- 3.2.3.1 As part of the revenue sharing arrangement described in Section 3.2.3 the number of lines per ported number that are subject to compensation will be determined at the time the end user customer's local service is changed from one party to the other. The number of lines per ported number eligible for the shared revenue arrangement described in this section will be limited to the number of lines in service on the date of conversion plus a 10% growth margin. After conversion the number of lines per ported number available for compensation can only be increased by mutual consent of the Parties.
- 3.2.3.2 As part of the revenue sharing arrangement described in Section 3.2.3 the Parties agree that the compensation rates may change as a result of changes in access rates, traffic volume or for other reasons and agree to renegotiate the rates if a significant event occurs. At a minimum, the Parties agree to reevaluate the rates on an annual basis.
- 3.2.3.3 The Parties agree that terminating switched access calls ported via interim number portability may appear to the receiving Party to be a local call and that the implementation of reciprocal compensation for terminating local calls may result in overcompensation for ported switched access calls. The Parties agree that no charges shall be applied to the ported switched access calls as part of the local traffic termination. When the access revenue sharing arrangement described in Section 3.2.3 is in effect, the Parties agree to renegotiate the terminating shared access compensation rates if reciprocal compensation for local calls is implemented.
- 3.2.3.4 As part of the revenue sharing arrangement described in Section 3.2.3 the Party receiving the payments on a per line per month basis agrees to provide the following information on its invoice: Name of the end user accounts, the ported telephone numbers, the telephone numbers assigned to the lines in its switch, the INP methods used, class of service, and dates of initial installation and disconnects.
- 3.2.3.5 Upon implementation of permanent local number portability, the Parties agree to transition all interim number portability customers and their services to permanent local number portability methods within a mutually agreed upon time frame and discontinue use of further interim methods of number portability.

3.2 Tandem Switching Traffic.

The Parties will provide tandem switching for traffic between the Parties' end offices subtending each other's access tandem, as well as for traffic between either Party's end-users and any third party which is interconnected to the other Party's access tandems as follows:

- 3.3.1 The originating Party will compensate the tandem Party for each minute of originated tandem switched traffic which terminates to third party (e.g., other CLEC, ILEC, or wireless service provider). The applicable rate for this charge is the tandem transiting charge identified in Appendix A.
- 3.3.2 The originating Party also assumes responsibility for compensation to the company which terminates the call.

3.3.3 The Parties agree to enter into their own agreements with third-party providers. In the event that Pathnet sends traffic through GTE's network to a third-party provider with whom Pathnet does not have a traffic interexchange agreement, then Pathnet agrees to indemnify GTE for any termination charges rendered by a third-party provider for such traffic.

3.3 Inter-Tandem Switching.

The Parties will only use inter-tandem switching for the transport and termination of intraLATA toll traffic originating on each other's network at and after such time as either Pathnet has agreed to and fully implemented an existing intraLATA toll compensation mechanism such as IntraLATA Terminating Access Compensation (ITAC) or a functional equivalent thereof. The Parties will only use inter-tandem switching for the transport and termination of Local Traffic originating on each other's network at and after such time as the Parties have agreed to and fully implemented generally accepted industry signaling standards and Automated Message Accounting (AMA) record standards which shall support the recognition of multiple tandem switching events.

4. Direct Network Interconnection.

4.1 Network Interconnection Architecture.

Pathnet may interconnect with GTE on its network at any of the minimum Currently Available points required by the FCC. Interconnection at additional points will be reviewed on an individual case basis. Where the Parties mutually agree following a Bona Fide Request (BFR) to directly interconnect their respective networks, interconnection will be as specified in the following subsections. Based on the configuration, the installation time line will vary considerably, however, GTE will work with Pathnet in all circumstances to install IPs within 120 calendar days absent extenuating circumstances. Internetwork connection and protocol must be based on industry standards developed consistent with Section 256 of the Act.

4.1.1 Subject to mutual agreement, the Parties may use the following types of network facility interconnection, using such interface media as are (i) appropriate to support the type of interconnection requested and (ii) available at the facility at which interconnection is requested.

- (a) A Mid-Span Fiber Meet within an existing GTE exchange area whereby the Parties mutually agree to jointly plan and engineer their facility IP at a designated manhole or junction location. The IP is the demarcation between ownership of the fiber transmission facility. Each party is individually responsible for its incurred costs in establishing this arrangement.
- (b) A virtual or physical Expanded Interconnection Service (EIS) arrangement at a GTE Wire Center subject to the rates, terms, and conditions contained in GTE's applicable tariffs.
- (c) A special access and/or CLEC Dedicated Transport arrangement terminating at a GTE Wire Center subject to the rates, terms, and conditions contained in GTE's applicable tariffs. These facilities will meet the standards set forth in such tariffs.

4.1.2 Virtual and physical EIS arrangements are governed by appropriate GTE tariffs, except as provided in Article IX and Appendix G.

- 4.1.3 The Parties will mutually designate at least one IP on GTE's network within each GTE local calling area for the routing of Local Traffic.

4.2 Compensation.

The Parties agree to the following compensation for internetwork facilities, depending on facility type. Only Local Traffic and IntraLATA Toll Traffic will be used for calculation of this compensation.

- 4.2.1 Mid-Span Fiber Meet: GTE will charge special access (flat rated) transport from the applicable intrastate access tariff and will rate charges between the IP and GTE's interconnection switch. Charges will be reduced to reflect the proportionate share of the facility that is used for transport of traffic originated by GTE. The initial proportionate share factor for facilities is set forth in Appendix A. This factor will be updated quarterly in like manner or as the Parties otherwise agree. Pathnet will charge flat rated transport to GTE for Pathnet facilities used by GTE at tariffed rates or as mutually agreed. Pathnet will apply charges based on the lesser of; (i) the airline mileage from the IP to the Pathnet switch; or (ii) the airline mileage from the GTE switch to the serving area boundary.
- 4.2.2 Collocation: GTE will charge Virtual or Physical EIS rates from the applicable GTE tariff. Pathnet will charge GTE flat rated transport at tariffed rates or as mutually agreed, to reflect the proportionate share of the facility that is used for transport of traffic originated by GTE. Pathnet will apply charges based on the lesser of (i) the airline mileage from the IP to the Pathnet switch; or (ii) two (2) times the airline mileage from the GTE switch to the serving area boundary.
- 4.2.3 Special Access and/or CLEC Dedicated Transport: GTE will charge special access and/or switched access rates from the applicable GTE intrastate access tariff. Charges will be reduced to reflect the proportionate share of the facility that is used for transport of traffic originated by GTE. The Parties will negotiate an initial factor representative of the proportionate share of the facilities. This factor will be updated quarterly in like manner or as the Parties otherwise agree.

4.3 Trunking Requirements.

In accordance with Article III, Section 12, it will be necessary for the Parties to have met and agreed on trunking availability and requirements in order for the Parties to begin exchange of traffic.

- 4.3.1 The Parties agree to establish trunk groups of sufficient capacity from the interconnecting facilities such that trunking is available to any switching center designated by either Party, including end offices, tandems, 911 routing switches, and directory assistance/operator service switches. The Parties will mutually agree where one-way or two-way trunking will be available. The Parties may use two-way trunks for delivery of Local Traffic or either Party may elect to provision its own one-way trunks for delivery of Local Traffic to the other Party. If a Party elects to provision its own one-way trunks, that Party will be responsible for its own expenses associated with the trunks.
- 4.3.2 Pathnet shall make available to GTE trunks over which GTE shall terminate to end-users of Pathnet-provided Exchange Services, Local Traffic and intraLATA toll or optional EAS traffic originated from end-users of GTE-provided Exchange Service.

- 4.3.3 Pathnet and GTE shall, where applicable, make reciprocally available, by mutual agreement, the required trunk groups to handle different traffic types. Pathnet and GTE will support the provisioning of trunk groups that carry combined or separate Local Traffic and intraLATA toll and optional EAS traffic. GTE requires separate trunk groups from Pathnet to originate and terminate interLATA calls and to provide Switched Access Service to IXCs. To the extent Pathnet desires to have any IXCs originate or terminate switched access traffic to or from Pathnet, using jointly provided switched access facilities routed through a GTE access tandem, it is the responsibility of Pathnet to arrange for such IXC to issue an ASR to GTE to direct GTE to route the traffic. If GTE does not receive an ASR from the IXC, GTE will initially route the switched access traffic between the IXC and Pathnet. If the IXC subsequently indicates that it does not want the traffic routed to or from Pathnet, GTE will not route the traffic.
- 4.3.3.1. Each Party agrees to route traffic only over the proper jurisdictional trunk group.
- 4.3.3.2. Each Party shall only deliver traffic over the local interconnection trunk groups to the other Party's access tandem for those publicly-dialable NXX Codes served by end offices that directly subtend the access tandem or to those wireless service providers that directly subtend the access tandem.
- 4.3.3.3. Neither party shall route Switched Access Service traffic over local interconnection trunks, or Local Traffic over Switched Access Service trunks.
- 4.3.4 End-Office Trunking. The Parties will work together to establish high usage end-office trunk groups sufficient to handle the greater of the actual or reasonably forecasted traffic volumes between a Pathnet end office and a GTE end office. When traffic to any specific end office is greater than 24 trunks worth of traffic, the Parties shall begin to negotiate the direct end office trunking on a high usage basis with the overflow being routed through the Tandem.
- 4.3.5 Pathnet and GTE will reciprocally provide Percent Local Usage (PLU) factors to each other on a semi-annual basis to identify the proper percent of Local Traffic carried on local interconnection trunks. If either Party does not provide to the other Party an updated PLU, the previous PLU will be utilized. The parties agree to the initial PLU factor as set forth in Appendix A.
- 4.3.6 Reciprocal traffic exchange arrangement trunk connections shall be made at a DS-1 or multiple DS-1 level, DS-3, (Synchronous Optical Network (SONET)) where technically available) and shall be jointly-engineered to the appropriate industry grade of service standard B.01 or B.005.
- 4.3.7 Pathnet and GTE agree to use diligent efforts to develop and agree on a Joint Interconnection Grooming Plan prescribing standards to ensure that the reciprocal traffic exchange arrangement trunk groups are maintained at the appropriate industry grades of service standard B.01 or B.005. Such plan shall also include mutually-agreed upon default standards for the configuration of all segregated trunk groups.

- 4.3.8 SS7 Common Channel Signaling will be used to the extent that such technology is available. If SS7 is not available, Multi-Frequency Signaling (MF) will be used as specified.
- 4.3.9 The Parties agree to offer and provide to each other B8ZS Extended Superframe Format (ESF) facilities, where available, capable of voice and data traffic transmission.
- 4.3.10 The Parties will support intercompany 64kbps clear channel where available.
- 4.3.11 Orders between the Parties to establish, add, change or disconnect trunks shall be processed by use of an Access Service Request (ASR), or another industry standard eventually adopted to replace the ASR for local service ordering.

4.4 Trunk Forecasting.

- 4.4.1 The Parties will develop joint forecasting of trunk groups in accordance with Article III, Section 12. Intercompany forecast information must be provided by the Parties to each other twice a year. The semi-annual forecasts will include:
 - 4.4.1.1 yearly forecasted trunk quantities for no less than a two-year period (current year, plus one year); and
 - 4.4.1.2 the use of (i) CLCI?-MSG codes, which are described in Telcordia Technologies document BR 795-100-100; (ii) circuit identifier codes as described in BR 795-400-100; and (iii) Trunk Group Serial Number (TGSN) as described in BR 751-100-195.
- 4.4.2 Description of major network projects that affect the other Party will be provided with the semi-annual forecasts provided pursuant to Section 4.4.1. Major network projects include but are not limited to trunking or network rearrangements, shifts in anticipated traffic patterns, or other activities by either Party that are reflected by a significant increase or decrease in trunking demand for the following forecasting period.
- 4.4.3 Parties will meet to review and reconcile their forecasts if their respective forecasts differ significantly from one another.

4.5 Trunk Facility Under Utilization.

At least once a year the Parties shall exchange trunk group measurement reports for trunk groups terminating to the other Party's network. In addition and from time to time, each Party will determine the required trunks for each of the other Party's trunk groups from the previous 12 months servicing data. Required trunks will be based on the appropriate grade of service standard (B.01 or B.005) or the Joint Interconnection Grooming Plan referenced in Section 4.3.7. When a condition of excess capacity is identified, GTE will facilitate a review of the trunk group existing and near term (3 to 6 months) traffic requirements with the customer for possible network efficiency adjustment.

4.6 Network Redesigns Initiated by GTE.

GTE will not charge Pathnet when GTE initiates its own network redesigns/reconfigurations.

4.7 Interconnection Calling and Called Scopes for the Access Tandem Interconnection and the End Office Interconnection.

4.7.1 GTE Access Tandem Interconnection calling scope (originating and terminating) is to those GTE end offices which subtend the GTE access tandem to which the connection is made except as provided for in Section 3.2 of this Article V.

4.7.2 GTE End Office Interconnection calling scope (originating and terminating) is only to the end office and its remotes to which the connection is made.

5. Indirect Network Interconnection.

Neither Party shall deliver traffic destined to terminate at the other Party's end office via another LEC's end office. In addition, neither Party shall deliver traffic destined to terminate at an end office subtending the other Party's access tandem via another LEC's access tandem until such time as compensation arrangements have been established in accordance with this Article V, Sections 3.1 and 3.3.

6. Number Resources.

6.1 Number Assignment.

Nothing in this Agreement shall be construed to, in any manner, limit or otherwise adversely impact Pathnet's right to employ or to request and be assigned any NANP number resources including, but not limited to, Central Office (NXX) Codes pursuant to the Central Office Code Assignment Guidelines. Any request for numbering resources by Pathnet shall be made directly to the NANP Number Plan Administrator. Except with respect to those areas in which GTE is the NANP Number Plan Administrator, GTE shall not be responsible for the requesting or assignment of number resources to Pathnet. The Parties agree that disputes arising from numbering assignment shall be arbitrated by the NANP Number Plan Administrator. Pathnet shall not request number resources to be assigned to any GTE switching entity.

6.1.1 Each Party shall be responsible for notifying its customers of any changes in numbering or dialing arrangements to include changes such as the introduction of new NPAs or new NXX codes. Each Party is responsible for administering NXX codes assigned to it.

6.2 Rate Centers.

For purposes of compensation between the Parties and the ability of the Parties to appropriately apply their toll rates to their end-user customers, Pathnet shall adopt the Rate Center areas and Rate Center points that the Commission has approved for the ILECs and shall assign whole NPA-NXX codes to each Rate Center.

6.3 Routing Points.

Pathnet will also designate a Routing Point for each assigned NXX code. Pathnet may designate one location within each Rate Center as a Routing Point for the NPA-NXX associated with that Rate Center; alternatively Pathnet may designate a single location within one Rate Center to serve as the Routing Point for all the NPA-NXXs associated with that Rate Center and with one or more other Rate Centers served by Pathnet within an existing GTE exchange area and LATA.

6.4 Code and Numbers Administration.

The Parties will comply with code administration requirements as prescribed by the FCC, the Commission, and accepted industry guidelines. Where GTE is the NANP Number Plan Administrator, GTE will administer number resources, and charge for such administration in accord with applicable rules and regulations. GTE will administer numbering resources in a competitively neutral manner, and process requests for NXX codes in a timely manner and in accord with industry standards. The Parties shall protect Pathnet proprietary information that may be submitted to GTE in connection with GTE's responsibilities as NANP Number Plan Administrator in accordance with Article III, Section 14 of this Agreement.

6.5 Programming Switches.

It shall be the responsibility of each Party to program and update its own switches and network systems pursuant to the Local Exchange Routing Guide (LERG) to recognize and route traffic to the other Party's assigned NXX codes. Neither Party shall impose any fees or charges whatsoever on the other Party for such activities.

7. Number Portability (NP).

7.1 Interim Number Portability (INP).

Each Party shall provide the other Party with service provider number portability as an INP option for the purpose of allowing end-user customers to change service-providing Party without changing their telephone number. The Parties shall provide service provider number portability to each other using remote call forwarding ("RCF") and/or direct inward dialing (DID). The requesting Party will provide "forward to" telephone number that is within the same Rate Center. The GTE rates for INP service using RCF are set out in Appendix B attached to this Agreement and made a part hereof. Pathnet shall provide INP to GTE at the rates specified for Pathnet in Appendix B.

If a Party wishes to use Direct Inward Dialing (DID) to provide INP to its end-users, a dedicated trunk group is required between the GTE end office where the DID numbers are served into the CLEC switch. If there are no existing facilities between GTE and the CLEC, the dedicated facilities and transport trunks will be provisioned as switched access or unbundled service using the ASR provisioning process. The requesting Party will reroute the DID numbers to the pre-positioned trunk group using an Local Service Request (LSR). CLEC may purchase DID trunk service from GTE's tariff.

7.2 Local Number Portability (LNP).

7.2.1 The Parties agree that they shall develop and deploy number portability in accordance with the Act, such binding FCC and state mandates, and industry standards, as may be applicable.

7.2.2 The Parties agree that all INP accounts will be converted to LNP within a reasonable period of time after the conversion of an INP providing switch to commercially available LNP, and that a reasonable period of time is 90 days or as otherwise negotiated. The parties will work expeditiously to convert an end-user with new service requirements to LNP."

7.2.3 New requests for INP will not be allowed in a switch once LNP has been deployed in that switch.

8. Meet-Point Billing (MPB).

8.1 Meet-Point Arrangements.

- 8.1.1 The Parties may mutually establish MPB arrangements in order to provide Switched Access Services to Access Service customers via a GTE access tandem in accordance with the MPB guidelines adopted by and contained in the Ordering and Billing Forum's MECAB and MECOD documents, except as modified herein and as described in Section 3.2.3 for Interim Portability.
- 8.1.2 Except in instances of capacity limitations, GTE shall permit and enable Pathnet to sub-tend the GTE access tandem(s) nearest to the Pathnet Rating Point(s) associated with the NPA-NXX(s) to/from which the Switched Access Services are homed. In instances of capacity limitation at a given access tandem, Pathnet shall be allowed to subtend the next-nearest GTE access tandem in which sufficient capacity is available.
- 8.1.3 Interconnection for the MPB arrangement shall occur at the IP.
- 8.1.4 Common Channel Signaling shall be utilized in conjunction with MPB arrangements to the extent such signaling is resident in the GTE access tandem switch.
- 8.1.5 Pathnet and GTE will use diligent efforts, individually and collectively, to maintain provisions in their respective federal and state access tariffs, and/or provisions within the National Exchange Carrier Association (NECA) Tariff No. 4, or any successor tariff, sufficient to reflect this MPB arrangement, including MPB percentages.
- 8.1.6 As detailed in the MECAB document, Pathnet and GTE will, in a timely fashion, exchange all information necessary to accurately, reliably and promptly bill Access Service customers for Switched Access Services traffic jointly handled by Pathnet and GTE via the meet-point arrangement. Information shall be exchanged in Exchange Message Record (EMR) format, on magnetic tape or via a mutually acceptable Electronic File Transfer protocol.
- 8.1.7 Pathnet and GTE shall work cooperatively to coordinate rendering of Meet-Point bills to customers, and shall reciprocally provide each other usage data and related information at the appropriate charge.

8.2 Compensation.

- 8.2.1 Initially, billing to Access Service customers for the Switched Access Services jointly provided by Pathnet and GTE via the MPB arrangement shall be according to the multiple-bill method as described in the MECAB guidelines. This means each Party will bill the portion of service it provided at the appropriate tariff, or price list.
- 8.2.2 Subsequently, Pathnet and GTE may mutually agree to implement one of the following options for billing to third parties for the Switched Access Services jointly provided by Pathnet and GTE via the MPB arrangement: single-bill/single tariff method, single-bill/multiple tariff method, or to continue the multiple-bill method. Should either Party prefer to change among these billing methods, that Party shall notify the other Party of such a request in writing, ninety (90) Business Days in advance of the date on which such change is desired to be implemented. Such

changes then may be made in accordance with MECAB guidelines and if the Parties mutually agree, the change will be made.

9. Common Channel Signaling.

9.1 Service Description.

The Parties will provide Common Channel Signaling (CCS) to one another via Signaling System 7 (SS7) network interconnection, where and as available, in the manner specified in FCC Order 95-187, in conjunction with all traffic exchange trunk groups. SS7 signaling and transport services shall be provided by GTE in accordance with the terms and conditions of this Section 9 of this Article. The Parties will cooperate on the exchange of all appropriate SS7 messages for local and intraLATA call set-up signaling, including ISDN User Part (ISUP) and Transaction Capabilities Application Part (TCAP) messages to facilitate full interoperability of all CLASS Features and functions between their respective networks. Any other SS7 message services to be provided using TCAP messages (such as database queries) will be jointly negotiated and agreed upon.

9.2 Signaling Parameters.

All SS7 signaling parameters will be provided in conjunction with traffic exchange trunk groups, where and as available. These parameters include Automatic Number Identification (ANI), Calling Party Number (CPN), Privacy Indicator, calling party category information, originating line information, charge number, etc. Also included are all parameters relating to network signaling information, such as Carrier Information Parameter (CIP), wherever such information is needed for call routing or billing. GTE will provide SS7 via GR-394-SS7 and/or GR-317-SS7 format(s).

9.3 Privacy Indicators.

Each Party will honor all privacy indicators as required under applicable law.

9.4 Connection Through Signal Transfer Point (STP).

Pathnet must interconnect with the GTE STP(s) serving the LATA in which the traffic exchange trunk groups are interconnected. Additionally, all interconnection to GTE's 800/888 database and GTE's Line Information Data Base (LIDB) shall, consistent with this section, take place only through appropriate STP pairs.

9.5 Third Party Signaling Providers.

Pathnet may choose a third-party SS7 signaling provider to transport messages to and from the GTE SS7 network. In that event, that third party provider must present a letter of agency to GTE, prior to the testing of the interconnection, authorizing the third party to act on behalf of Pathnet in transporting SS7 messages to and from GTE. The third-party provider must interconnect with the GTE STP(s) serving the LATA in which the traffic exchange trunk groups are interconnected.

9.6 Multi-Frequency Signaling.

In the case where CCS is not available, in band Multi-Frequency (MF), wink start, E & M channel associated signaling with ANI will be provided by the Parties. Network signaling information, such as CIC/OZZ, will be provided wherever such information is needed for call routing or billing.

10. Network Management Controls.

Each Party shall provide a 24-hour contact number for Network Traffic Management issues to the other's network surveillance management center. A fax number must also be provided to facilitate event notifications for planned mass calling events. Additionally, both Parties agree that they shall work cooperatively that all such events shall attempt to be conducted in such a manner as to avoid degradation or loss of service to other end-users. Each Party shall maintain the capability of respectively implementing basic protective controls such as "Cancel To" and "Call Gap."

ARTICLE VI
RESALE OF SERVICES

1. General.

The purpose of this Article VI is to define the Exchange Services and related Vertical Features and other Services (collectively referred to for purposes of this Article VI as the "Services") that may be purchased from GTE and resold by Pathnet and the terms and conditions applicable to such resold Services. Except as specifically provided otherwise in this Agreement, provisioning of Exchange Services for resale will be governed by the GTE Guide. GTE will make available to Pathnet for resale any Telecommunications Service that GTE currently offers, or may offer hereafter, on a retail basis to subscribers that are not telecommunications carriers, except as qualified by Section 2.1 below.

2. Terms and Conditions.

2.1 Restrictions on Resale.

The following restrictions shall apply to the resale of retail services by Pathnet.

2.1.1 Pathnet shall not resell to one class of customers a service that is offered by GTE only to another class of customers in accordance with state requirements (e.g., R-1 to B-1, disabled services or lifeline services to non-qualifying customers).

2.1.2 Pathnet shall not resell promotional offerings of 90 days or less in duration. These promotional offerings are not available to Pathnet for resale. GTE will apply any applicable resale discount to the ordinary rate for a retail service rather than the special promotional rate.

2.2 Interim Universal Service Support Charge for Resale Services.

Pathnet wishes to resell GTE's Basic Exchange Residential and Business services. It is GTE's position that GTE's current intraLATA toll rates include implicit subsidies that support below-cost prices for other services and thus promote universal service. This universal service support is lost where a CLEC resells GTE's local service but does not resell GTE's intraLATA toll service. For this reason, GTE will not resell Basic Exchange Residential or Business services unless Pathnet pays the monthly interim universal service support charge set forth in Appendix C. GTE believes that this interim surcharge is required by state and federal law.

The lawfulness of GTE's interim surcharge is being addressed (or will be addressed) by the Commission or a court of competent jurisdiction. The parties agree that GTE will offer for resale Basic Exchange Residential and Business services at the avoided cost discount rate set forth in Appendix C without the interim surcharge, but subject to the following terms and conditions:

2.2.1 *Pathnet agrees that within thirty (30) days after the effective date of a Commission or court order affirming GTE's interim surcharge, Pathnet will (i) begin paying the monthly interim surcharge in accord with Appendix C, and (ii) make a lump sum payment to GTE of the total interim surcharges retroactive to the effective date of this agreement.*

2.2.2 *Notwithstanding any provision in this Agreement, GTE may, at its sole discretion and at any time, seek injunctive or other relief (i) requiring the CLEC to pay GTE's interim surcharge or (ii) requiring the Commission to immediately impose the interim surcharge.*

2.2.3 Nothing in this Agreement shall restrict or impair GTE from seeking injunctive relief or any other remedy at any time and in any court regarding GTE's interim surcharge or the Commission's rejection or modification of GTE's interim surcharge.

2.3 Restrictions on Discount of Retail Services.

The discount specified in Section 5.3 herein shall apply to all retail services except for the following:

2.3.1 Pathnet may resell services that are provided at a volume discount in accordance with terms and conditions of applicable tariff. Pathnet shall not aggregate end-user lines and/or traffic in order to qualify for volume discount.

2.3.2 Pathnet may resell ICB/Contract services without a discount and only to end-user customers that already have such services.

2.3.3 Pathnet may resell special access; however, no discount applies.

2.3.4 Pathnet may resell operator services and directory assistance as specified in Section 5.6 herein, and in accordance with the OS/DA discount specified in Appendix C.

2.3.5 Pathnet may resell COCOT coin or coinless line; however, no discount applies

2.4 Resale to Other Carriers.

Services available for resale may not be used by Pathnet to provide access to the local network as an alternative to tariffed switched and special access by other carriers, including, but not limited to; interexchange carriers, wireless carriers, competitive access providers, or other retail telecommunications providers.

3. Ordering and Billing.

3.1 Service Ordering, Service Provisioning, and Billing.

Pathnet will order services for resale directly from GTE through an electronic interface or fax. The following describes generally the processes GTE will use for ordering, provisioning and billing for resold services. Except as specifically provided otherwise in this Agreement, service ordering, provisioning, billing and maintenance shall be governed by the GTE Guide.

3.2 Local Service Request.

Orders for resale of services will be placed utilizing standard LSR forms. GTE will continue to participate in industry forums for developing service order/disconnect order formats and will incorporate appropriate industry standards. Complete and accurate forms (containing the requisite end-user information as described in the Guide) must be provided by Pathnet before a request can be processed.

3.2.1 GTE will accept orders for As-Is Transfer (AIT) of services from GTE to Pathnet where GTE is the end-user's current local exchange company. GTE cannot provide an AIT of service from another CLEC selling GTE's services to Pathnet.

3.3 Certificate of Operating Authority.

When ordering, Pathnet must represent and warrant to GTE that it is a certified provider of local dial-tone service. Pathnet will provide a copy of its Certificate of Operating Authority or other evidence of its status to GTE upon request.

3.4 Directory Assistance (DA) Listings.

GTE shall include a Pathnet customer listing in its DA database as part of the LSR process. GTE will honor Pathnet Customer's preferences for listing status, including non-published and unlisted, and will enter the listing in the GTE database which is used to perform DA functions as it appears on the LSR.

3.5 Nonrecurring Charges.

Pathnet shall be responsible for the payment of all nonrecurring charges (NRCs) applicable to resold Services (e.g., installation, changes, ordering charges) as listed in Appendix C. In addition, NRCs for Field Service work (Installation/Repair requiring on site visits will be charged from the appropriate tariff. No discount applies to nonrecurring charges.

3.6 Alternate Billed Calls.

GTE shall record usage data originating from Pathnet subscribers that GTE records with respect to its own retail customers, using services ordered by Pathnet. On resale accounts, GTE will provide usage in EMR format per existing file exchange schedules. Incollects are calls that are placed using the services of GTE or another LEC or Local Service Provider (LSP) and billed to a resale service line of Pathnet. Outcollects are calls that are placed using a Pathnet resale service line and billed to a GTE line or line of another LEC or LSP. Examples of an incollect or an outcollect are collect, credit card calls.

3.6.1 Incollects. GTE will provide the rated record it receives from the CMDS network, or which GTE records (non-intercompany), to Pathnet for billing to Pathnet's end-users. GTE will settle with the earning company, and will bill Pathnet the amount of each incollect record less the Billing & Collection (B&C) fee for end-user billing of the incollects. The B&C credit will be \$.05 per billed message. Any additional message processing fees associated with Pathnet's incollect messages that are incurred by GTE will be billed to Pathnet on the monthly statement.

3.6.2 Outcollects. When the GTE end-office switch from which the resale line is served utilizes a GTE operator services platform, GTE will provide to Pathnet the unrated message detail that originates from a Pathnet resale service line but which is billed to a telephone number other than the originating number (e.g., calling card, bill-to-third number, etc.). Pathnet as the LSP will be deemed the earning company and will be responsible for rating the message at Pathnet rates and Pathnet will be responsible for providing the billing message detail to the billing company for end-user billing. Pathnet will pay to GTE charges as agreed to for services purchased, and Pathnet will be compensated by the billing company for the revenue which Pathnet is due.

When a non-GTE entity provides operator service to the GTE end office from which the resale line is provisioned, Pathnet must contract with the operator services provider to get any EMR records which Pathnet requires.

3.7 Transfers Between Pathnet and Another Reseller of GTE Services.

When Pathnet has obtained an end-user customer from another reseller of GTE services, Pathnet will inform GTE of the transfer by submitting standard LSR forms to GTE.

3.7.1 GTE cannot accept an order for AIT of service from one CLEC reselling GTE services to another reseller of GTE services.

3.8 Local Calling Detail.

Except for those Services and in those areas where measured rate local service is available to end-users, monthly billing to Pathnet does not include local calling detail. However, Pathnet may request and GTE shall consider developing the capabilities to provide local calling detail in those areas where measured local service is not available for a mutually agreeable charge.

3.9 Billing.

GTE will utilize CBSS to produce the required bills for resold services. CBSS will create a bill to Pathnet along with a summary bill master. State or sub-state level billing will include up to thirty (30) summary bill accounts.

3.10 LIDB.

For resale services, the LSR will generate updates to GTE's LIDB for validation of calling card, collect, and third number billed calls.

3.11 Originating Line Number Screening (OLNS).

Upon request, GTE will update the database to provide OLNS which indicates to an operator the acceptable billing methods for calls originating from the calling number (e.g., penal institutions, COCOTS).

4. Maintenance.

4.1 Maintenance, Testing and Repair.

GTE will provide repair and maintenance services to Pathnet and its end-user customers for resold services in accordance with the same standards and charges used for such services provided to GTE end-user customers. GTE will not initiate a maintenance call or take action in response to a trouble report from a Pathnet end-user until such time as trouble is reported to GTE by Pathnet. Pathnet must provide to GTE all end-user information necessary for the installation, repair and servicing of any facilities used for resold services according to the procedures described in the Guide.

5. Services Available for Resale.

5.1 Description of Local Exchange Services Available for Resale.

Resold basic Exchange Service includes, but is not limited to, the following elements:

- (a) Voice Grade Local Exchange Access Line - includes a telephone number and dial tone.
- (b) Local Calling - at local usage measured rates if applicable to the end-user customer.
- (c) Access to long distance carriers

- (d) E-911 Emergency Dialing
- (e) Access to Service Access Codes - e.g., 800, 888, 900
- (f) Use of AIN Services (those Currently Available to end-users)
- (g) End-user Private Line Services
- (h) Listing of telephone number in appropriate "white pages" directory; and
- (i) Copy of "White Pages" and "Yellow Pages" directories for the appropriate GTE service area
- (j) IntraLATA toll

5.2 Other Services Available for Resale.

GTE will provide resold services at retail less the avoided cost discount as defined in Article VI, Section 5.3. Subject to the limitations enumerated in Article VI of this Agreement, the type of resold services made available to Pathnet are those telecommunication services described in GTE's retail tariffs, as amended from time to time. Any new retail services that GTE offers in such tariffs to customers who are not telecommunications carriers may also be available to Pathnet for resale under the same terms and conditions contained in this Agreement. GTE shall provide notice to PATHNET of any new offering that is being offered to GTE's customers so that PATHNET may have an opportunity to make the same offerings to PATHNET's end users.

5.2.1 Promotional Services. GTE shall make available for resale, those promotional offerings that are greater than 90 days in duration and the special promotional rate will be subject to the applicable resale discount.

5.3 Rates.

The prices charged to Pathnet for Local Services shall be calculated as follows:

5.3.1 Avoided Cost Discount as shown in Appendix C shall apply to all retail services except those services listed in Section 2.1 and Section 2.3 herein.

5.4 Grandfathered Services.

Services identified in GTE Tariffs as grandfathered in any manner are available for resale only to end-user customers that already have such grandfathered service. An existing end-user customer may not move a grandfathered service to a new service location. Grandfathered Services are subject to a resale discount.

5.5 Access.

GTE retains all revenue due from other carriers for access to GTE facilities, including both switched and special access charges.

5.6 Operator Services (OS) and Directory Assistance (DA).

OS for local and toll assistance (for example, call completion, busy line verification and emergency interruption) and DA (e.g., 411 calls) are provided as a part of Exchange Services offered for resale. GTE may brand this service as GTE. Pathnet will be billed in accordance with GTE's retail tariff.

ARTICLE VII
UNBUNDLED NETWORK ELEMENTS

[Note: See Attachment A]

ARTICLE VIII

ADDITIONAL SERVICES AND COORDINATED SERVICE ARRANGEMENTS

1. Transfer of Service Announcements.

When an end-user customer transfers service from one Party to the other Party, and does not retain its original telephone number, the Party formerly providing service to the end-user will provide, upon request and if such service is provided to its own customers, a referral announcement on the original telephone number. This announcement will provide the new number of the customer and will remain in effect for the same time period this service is provided to GTE's own end-users.

2. Misdirected Calls.

The Parties will employ the following procedures for handling any misdirected calls (e.g., Business office, repair bureau, etc.):

- 2.1 To the extent the correct provider can be determined, each Party will refer misdirected calls to the proper provider of local exchange service. When referring such calls, both Parties agree to do so in a courteous manner at no charge.
- 2.2 For misdirected repair calls, the Parties will provide their respective repair bureau contact number to each other on a reciprocal basis and provide the end-user the correct contact number.
- 2.3 In responding to misdirected calls, neither Party shall make disparaging remarks about each other, nor shall they use these calls as a basis for internal referrals or to solicit end-users or to market services.

3. 911/E-911 Arrangements.

Except as directed herein, Pathnet will be required to negotiate a separate agreement or order separately pursuant to applicable GTEs tariffs

4. Information Services Traffic.

4.1 Routing.

Each Party shall route traffic for Information Services (i.e., 900-976, Internet, weather lines, sports providers, etc.) which originates on its network to the appropriate Information Service Platform.

4.2 Billing and Collection and Information Service Provider (ISP) Remuneration.

4.2.1 In the event GTE performs switching of ISP traffic associated with resale or unbundled ports for Pathnet, GTE shall provide to Pathnet the same call detail records that GTE records for its own end-users, so as to allow Pathnet to bill its end-users. GTE shall not be responsible or liable to Pathnet or ISP for Billing and Collection and/or any receivables of Information Service Providers.

4.2.2 Notwithstanding and in addition to Article III, Section 28, GTE shall be indemnified and held harmless by Pathnet from and against any and all suits, actions, losses, damages, claims, or liability of any character, type, or description, including all expenses of litigation and court cost which may arise as a result of the provisions contained in this Article VIII, Section 4.2.1 supra. The indemnity contained in this section shall survive the termination of this Agreement, for whatever reason.

4.2.3 GTE agrees to notify Pathnet in writing within ten (10) Business Days, by registered or certified mail at the address specified in Article III, Section 31, of any claim made against GTE on the obligations indemnified against pursuant to this Article VIII, Section 4.

4.2.4 It is understood and agreed that the indemnity provided for in this Article VIII, Section 4 is to be interpreted and enforced so as to provide indemnification of liability to GTE to the fullest extent now or hereafter permitted by law.

4.3 900-976 Call Blocking.

GTE shall not unilaterally block 900-976 traffic in which GTE performs switching associated with resale or UNEs. GTE will block 900-976 traffic when requested to do so, in writing, by Pathnet. Pathnet shall be responsible for all costs associated with the 900-976 call blocking request. GTE reserves the right to block any and all calls which may harm or damage its network.

4.4 Miscellaneous.

GTE reserves the right to provide to any Information Service Provider a list of any and all Telecommunications Providers doing business with GTE.

5. Telephone Relay Service.

Local and intraLATA Telephone Relay Service (TRS) enables deaf, hearing-impaired, or speech-impaired TRS users to reach other telephone users. With respect to resold services, Pathnet's end-users will have access to the state authorized TRS provider to the extent required by the Commission, including any applicable compensation surcharges.

6. Directory Assistance and Operator Services.

Where Pathnet is providing local service with its own switch, upon Pathnet's request GTE will provide to Pathnet rebranded or unbranded DA services and/or OS pursuant to separate contracts to be negotiated in good faith between the Parties. If Pathnet so requests DA services and/or OS, such contracts shall provide for the following:

6.1 Directory Assistance Calls.

GTE DA centers shall provide number and addresses to Pathnet end-users in the same manner that number and addresses are provided to GTE end-users. If information is provided by an automated response unit (ARU), such information shall be repeated twice in the same manner in which it is provided to GTE end-users. Where available, GTE will provide call completion to Pathnet end-users in the same manner that call completion is provided to GTE end-users. GTE will provide its existing services to Pathnet end-users consistent with the service provided to GTE end-users.

6.2 Operator Services Calls.

GTE OS provided to Pathnet end-users shall be provided in the same manner GTE OS are provided to GTE end-users. In accordance with GTE practices and at GTE rates, GTE will offer to Pathnet end-users collect, person-to-person, station-to-station calling, third-party billing, emergency call assistance, calling card services, credit for calls, time and charges, notification of the length of call, and real time rating. GTE operators shall also have the ability to quote Pathnet rates upon request but only if there is appropriate cost recovery to GTE and to the extent it can be provided within the technical limitations of GTE's switches.

GTE will provide its existing services to Pathnet end-users consistent with the service GTE provides to its own end-users.

7. Directory Assistance Listings Information.

GTE will make available to Pathnet, at Pathnet's request, GTE end-user and authorized LEC DA listing information stored in GTE's DA database for the purposes of Pathnet providing DA service to its customers. Implementation of customized routing, is required for Pathnet to provide DA Service for GTE Resold and Unbundled Port services.

- 7.1 DA Listing Information includes the listed names, addresses and telephone numbers of GTE and authorized LEC subscribers, except as otherwise provided herein. Excluded are listings for restricted LEC lines and non-published listings. GTE DA listing information includes 800/888 listings, non-listed numbers and foreign listings within the GTE franchise.
- 7.2 GTE shall provide to Pathnet, at Pathnet's request, DA listing information within sixty (60) Business Days after an order is received for that specific state. The DA listing information will be provided in GTE format via magnetic tape or National Data Mover (NDM) as specified by Pathnet. Updates to the DA listing information shall be provided on a daily basis through the same means used to transmit the initial load. DA listing information provided shall indicate whether the customer is a residence or business customer.
 - 7.2.1 Such listings shall be confidential information pursuant to Article III of this Agreement and Pathnet will use the listings only for its DA services to its end-users. Pathnet is not authorized to release GTE's DA listing information to any third party or to provide DA to any other party using GTE DA listing information, including Pathnet's affiliates, subsidiaries or partners, except with the expressed written permission of GTE. In those instances where Pathnet's affiliates, subsidiaries or partners also desire to use GTE's DA listing information, each affiliate, subsidiary or partner must negotiate a separate contract with GTE to obtain the listings.
 - 7.2.2 If Pathnet uses a third-party DA service for its end-users, Pathnet will ensure that such third party likewise treats the listings as Confidential Information pursuant to Article III of this Agreement, and uses them only for Pathnet end-user DA.
 - 7.2.3 GTE will include Pathnet's DA listing information in GTE's DA database which may be released to third parties which request GTE's DA listing information, unless Pathnet provides GTE written notice within sixty (60) Business Days after the effective date of this Agreement that its DA listing information is restricted and should not be released to third parties. In the event that Pathnet does properly notify GTE that its DA listing information is restricted, GTE will so advise third parties requesting such information.
- 7.3 Pathnet agrees to pay GTE's standard charges for the initial load and daily updates of GTE's DA listing information, which will be provided upon request.
- 7.4 The Parties will work together to identify and develop procedures for database error corrections.

8. Directory Listings and Directory Distribution.

Pathnet will be required to negotiate a separate agreement for directory listings and directory distribution, except as set forth below, with GTE's directory publication company.

8.1 Listings.

Pathnet agrees to supply GTE on a regularly scheduled basis, at no charge, and in a mutually agreed upon format (e.g. Ordering and Billing Forum developed), all listing information for Pathnet's subscribers who wish to be listed in any GTE published directory for the relevant operating area. Listing information will consist of names, addresses (including city, state and zip code) and telephone numbers. Nothing in this Agreement shall require GTE to publish a directory where it would not otherwise do so.

Listing inclusion in a given directory will be in accordance with GTE's solely determined directory configuration, scope, and schedules, and listings will be treated in the same manner as GTE's listings.

8.2 Distribution.

Upon directory publication, GTE will arrange for the initial distribution of the directory to service subscribers in the directory coverage area at no charge.

Pathnet will supply GTE in a timely manner with all required subscriber mailing information including non-listed and non-published subscriber mailing information, to enable GTE to perform its distribution responsibilities.

9. Busy Line Verification and Busy Line Verification Interrupt.

Each Party shall establish procedures whereby its operator assistance bureau will coordinate with the operator assistance bureau of the other Party to provide Busy Line Verification (BLV) and Busy Line Verification and Interrupt (BLVI) services on calls between their respective end-users. Each Party shall route BLV and BLVI inquiries over separate inward OS trunks. Each Party's operator assistance bureau will only verify and/or interrupt the call and will not complete the call of the end-user initiating the BLV or BLVI. Each Party shall charge the other for the BLV and BLVI services at the rates contained in the respective tariffs.

10. Street Address Guide (SAG).

GTE will provide to Pathnet upon request the Street Address Guide at a reasonable charge. Two companion files will be provided with the SAG which lists all services and features at all end offices, and lists services and features that are available in a specific end office.

11. Dialing Format Changes.

GTE will provide reasonable notification to Pathnet of changes to local dialing format, *i.e.*, 7 to 10 digit, by end office.

ARTICLE IX
COLLOCATION

1. General.

GTE shall provide collocation services in accordance with and subject to the terms and conditions of this Article IX and other applicable requirements of this Agreement. Collocation provides for access to those GTE wire centers or access tandems listed in the NECA, Tariff FCC No. 4 for the purpose of interconnection for the exchange of traffic with GTE and/or access to unbundled network elements (UNEs). Collocation shall be accomplished through caged or cageless service offerings, as described below, except if not practical for technical reasons or due to space limitations. In such event, GTE shall provide adjacent collocation or other methods of collocation, subject to space availability and technical feasibility.

2. Types of Collocation.

2.1 Single Caged.

A single caged arrangement is a form of caged collocation, which allows a single CLEC to lease caged floor space to house its equipment within GTE wire center(s) or access tandem(s).

2.2 Shared Caged.

A shared caged arrangement is a newly constructed caged collocation arrangement that is jointly applied for and occupied by two or more CLECs within a GTE wire center or access tandem. When two or more CLECs request establishment and jointly apply for a new caged collocation arrangement to be used as a shared caged arrangement, one of the participating CLECs must agree to be the host CLEC (HC) and the other(s) to be the guest CLEC (GC). . The HC and GC(s) are solely responsible for determining whether to share a shared caged collocation arrangement and if so, upon what terms and conditions. GTE will not issue separate billing for any of the rate elements associated with the shared caged collocation arrangement between the HC and the GC(s), but GTE will provide the HC with information on the proportionate share of the NRCs for each CLEC in the shared arrangement. The HC will be responsible for ordering and payment of all collocation applicable services ordered by the HC and GC(s). The HC and GC(s) are GTE's customers and have all the rights and obligations applicable hereunder to CLECs purchasing collocation-related services, including, without limitation, the obligation to pay all applicable charges, whether or not the HC is reimbursed for all or any portion of such charges by the guest(s). All terms and conditions for caged collocation as described in this Article IX will apply to shared caged collocation requirements. For additional details on shared caged collocation see GTE's Collocation Services Packet (CSP), which is described in Section 3.1 below.

2.3 Subleased Caged.

Vacant space available in a CLEC's caged collocation arrangement may be made available to a third party(s) for the purpose of interconnection and/or for access to UNEs in GTE's wire center(s) or access tandem(s) via the subleasing collocation arrangement detailed in GTE's CSP. The CLEC would sublease the floor space to the third party(s) pursuant to terms and conditions agreed to by the CLEC and the third party(s) involved. The third party(s) must each be independently collocated within the subleased caged space and interconnected to GTE's network for the purposes set forth in this Agreement. The CLEC is solely responsible for determining whether to sublease a shared caged collocation arrangement and if so, upon what terms and conditions. GTE will not issue separate billing

for any of the rate elements associated with the subleased caged collocation arrangement between the CLEC and the third party(s). The CLEC will be responsible for ordering and payment of all collocation applicable services ordered by the CLEC and the third party(s). The CLEC and third party(s) are GTE's customers and have all the rights and obligations applicable hereunder to CLECs purchasing collocation-related services, including, without limitation, the obligation to pay all applicable charges, whether or not the CLEC is reimbursed for all or any portion of such charges by the third party(s). All terms and conditions for caged collocation as described in this Article IX will apply to subleased caged collocation requirements. For additional details on subleased caged collocation, see GTE's CSP.

2.4 Cageless.

Cageless collocation is a form of collocation in which CLECs can place their equipment in GTE wire center(s) or access tandem(s) conditioned space. A cageless collocation arrangement allows a CLEC, using GTE approved vendors, to install equipment in single bay increments in an area designated by GTE. This space will be in a separate lineup, if available. If a separate bay lineup is not available, the CLEC's bay will be segregated by at least one vacant bay from GTE's own equipment unless no other collocation space is available. The equipment location will be designated by GTE and will vary based on individual wire center or access tandem configurations. CLEC equipment will not share the same equipment bays with GTE equipment.

2.5 Adjacent.

An adjacent collocation arrangement permits a CLEC to construct or procure a structure on GTE property for collocation for the purposes of provisioning expanded interconnection and/or access to UNEs in accordance with the terms and conditions of this Agreement. Adjacent collocation is only an option when the following conditions are met: (1) space is legitimately exhausted in GTE's wire center or access tandem for caged and cageless collocation; and (2) it is technically feasible to construct a hut or similar structure on GTE property that adheres to local building code, zoning requirements, and GTE building standards. For additional details on adjacent collocation, see GTE's CSP, which is described in Section 3.1 below.

2.6 Other.

A CLEC shall have the right to order collocation services offered pursuant to GTE tariffs following the effective date of this Agreement, including, without limitation, the right to order virtual collocation services in accordance with, and subject to, the terms of GTE's existing federal collocation tariff (GTOC Tariff No. 1). The terms of this Article IX shall not apply to said tariff collocation services. However, new collocation services ordered outside of said tariffs on or after the effective date will be provided pursuant to the terms of this Agreement.

2.6.1. If Pathnet requests from GTE the conversion of a virtual collocation to a cageless collocation each conversion requested will be evaluated on a case by case basis via the BFR process outlined in Section 7. The proposed conversion will not compromise GTE equipment security standards. Technical practicability and space limitations will also be considered when evaluating this type of conversion.

2.7 Microwave Transport.

Nothing in this Section precludes the ability of Pathnet to request microwave transport with its physical collocation except where not practical for technical reasons or space limitations.

2.7.1. A Bona Fide Request (BFR) shall be submitted in writing by Pathnet and shall specifically include technical requirements, space requirements and/or other such specifications that clearly define the request such that GTE has sufficient information to analyze and prepare a response.

2.7.2. Pathnet may cancel a BFR in writing at anytime prior to Pathnet and GTE agreeing to price and availability. If Pathnet cancels the BFR, then GTE will then cease analysis of the request.

2.7.3. Within five (5) Business Days of its receipt, GTE shall acknowledge in writing the receipt of the BFR and identify a single point of contact and any additional information needed to process the request.

2.7.4. Except under extraordinary circumstances, within thirty (30) Business Days of receipt of a BFR, GTE shall provide a proposed price and availability date, or it will provide an explanation as to why GTE elects not to meet Pathnet's request. If extraordinary circumstances prevail, GTE will inform Pathnet as soon as it realizes that it cannot meet the thirty (30) Business Day response due date. Pathnet and GTE will then determine a mutually agreeable date for receipt of the response.

2.7.5. Upon affirmative response from GTE, Pathnet will submit in writing its acceptance or rejection of GTE's proposal. If at any time an agreement cannot be reached as to the terms and conditions or price of the request, the Parties agree to follow the Alternative Dispute Resolution procedures described in the General Terms of the, Agreement, Section 14. Any rejection should only be based on technical reasons or space limitations, including future building plans within the next planning cycle of 2 years, or other structural issues.

2.7.6. Within ten (10) Business Days of receipt of Pathnet's acceptance of the proposal, GTE will schedule an on site meeting with Pathnet to discuss the requirements of the BFR and establish timelines for the project.

2.7.8. Pathnet accepts responsibility for obtaining all permits and licenses to construct and operate the tower. This includes obtaining variances to any local code requirements.

2.7.9. GTE, at its discretion, will perform the construction or allow Pathnet to perform the construction using GTE approved contractors.

3. Ordering.

3.1 Application.

3.1.1 Point of Contact/CSP Packet. GTE will establish points of contact for Pathnet to contact to place a request for collocation. The point of contact will provide Pathnet with the CSP, which shall contain general information and requirements, including a list of engineering and technical specifications, fire, safety, security policies and procedures, and an application form.

3.1.2 Application Form/Fee. Pathnet requesting collocation at a wire center or access tandem will be required to complete the application form and submit the non-refundable engineering fee set forth in Appendix G described in Section 6.1 for each wire center or access tandem at which collocation is requested. The application form will require Pathnet to provide all engineering, floor space, power, environmental and other requirements necessary for the function of the service. Pathnet will provide GTE with specifications for any non-standard or special

requirements at the time of application. GTE reserves the right to assess the customer any additional charges on an individual case basis ("ICB") associated with complying with the requirements or to refuse an application where extensive modifications are required. Any such charges shall be noticed to the CLECs.

- 3.1.3 Notification of Acceptance/Rejection. GTE will notify Pathnet in writing within fifteen (15) calendar days following receipt of the completed application if Pathnet's requirements cannot be accommodated as specified. Should Pathnet submit ten (10) or more applications within a ten (10) day period, the response interval will be increased by ten (10) days for every ten (10) additional applications or fraction thereof, i.e., application 1-9 response interval will be 15 calendar days, applications 10-19 response interval will be 25 calendar days etc.
- 3.1.4 Changes. The first application form filed by Pathnet shall be designated the original application. Original applications for collocation arrangements for sites that have not been inspected and approved by Pathnet and GTE are subject to requests for minor or major changes to the site requested in the application. Changes will not be initiated until a completed application has been submitted along with appropriate Engineering Fee, if applicable.

Major changes are requests that add telecommunications equipment that requires additional AC or DC power; heating, ventilation, and air conditioning (HVAC) system modifications; or change the size of the cage. At the election of Pathnet, major changes may be handled in one of the following two methods to the extent technically feasible.

- (a) Method 1: Additional Application. Pathnet may elect to have a major change to its original collocation application treated by GTE as a separate, additional application. An additional application is subject to the same provisioning process and conditions as an original application. On receipt of a complete additional application and Engineering Fee, GTE will notify Pathnet in writing within fifteen (15) calendar days following receipt of the completed additional application if the Pathnet additional requirements can or cannot be accommodated as specified. Filing an additional application does not change GTE's obligation to process and fulfill the original application nor does it change the time intervals applicable to the processing and fulfillment of the original application. All of the provisions herein applicable to an original application similarly apply to an additional application.
- (b) Method 2: Supplemental Application. Pathnet may elect to have a major change to its original collocation application treated by GTE as a supplemental application. A supplemental application may affect GTE's obligation to process and fulfill the original application. On receipt of a supplemental application and Engineering Fee, GTE will notify Pathnet in writing within fifteen (15) calendar days following receipt of the completed supplemental application if Pathnet requirements can or cannot be accommodated as specified. Upon notification that GTE can accommodate the requirements of the supplemental application, Pathnet may elect to proceed with the supplemental application. GTE's obligations under the original application will be merged with the obligations of the supplemental application and the combined project time line will be based on the date the supplemental application was received. All of the

provisions herein applicable to an original application similarly apply to a supplemental application.

- (c) Minor changes are those requests that do not require additional AC or DC power, HVAC upgrades, or changes in cage/floor space. The Pathnet will be required to submit a revised application but the deliverable dates for the project will not change.

3.2 Space Availability.

GTE will notify Pathnet within fifteen (15) calendar days following receipt of the completed application form and non-refundable engineering fee if space is available at the selected wire center or access tandem. If space is not available, GTE will notify Pathnet in writing. Space availability and reservation shall be determined in accordance with Section 5.

3.3 Price Quote.

GTE shall provide Pathnet with a price quote for collocation services required to accommodate Pathnet's request within thirty (30) days of Pathnet's application date. GTE reserves the right to change the price quote at any time prior to acceptance by Pathnet. If the quote is not accepted by Pathnet within such ninety (90) day period, Pathnet will be required to submit a new application form and engineering fee and a new quote will be provided based on the new application form.

3.4 ASR.

Upon notification of available space, Pathnet will be required to send a completed Access Service Request ("ASR") form to GTE's collocation point of contact. A copy of an ASR form is included in the CSP.

3.5 Augmentation.

All requests for an addition or change to an existing collocation arrangement that has been inspected and turned over to the CLEC is considered an augmentation. An augmentation request will require the submission of a complete application form and a non-refundable Engineering or Minor Augment fee. A Minor Augment fee may not be required under the circumstances outlined below. The definition of a major or minor augment is as follows:

- 3.5.1 Major Augments are those requests that: (a) require AC or DC power; (b) add equipment that generates more BTUs of heat, or (c) increase the caged floor space over what Pathnet requested in its original application. A complete application and Engineering Fee will be required when submitting a caged or cageless request that requires a Major Augment.
- 3.5.2 Minor Augments of caged and cageless collocation arrangements will require the submission of a complete application form and the Minor Augment Fee. Minor augments are those requests that: (a) do not require additional DC and AC power, (b) do not add equipment that generates more BTU's of heat, or (c) do not increase the caged floor space, over what Pathnet requested in its original application. The requirements of a Minor Augment request cannot exceed the capacity of the existing/proposed electrical, power or HVAC system. Requests for CLEC to CLEC Interconnects and DSO, DS1, and DS3 facility terminations are included as Minor Augments.

Minor Augments that require an augment fee are those requests that require GTE to perform a service or function on behalf of Pathnet including but not limited to: requests to pull cable for CLEC to CLEC Interconnects and DS0, DS1, and DS3 facility terminations.

Minor Augments that do not require a fee are those augments performed solely by Pathnet, that do not require GTE to provide a service or function on behalf of Pathnet, including but not limited to, requests to install additional equipment in Pathnet cage. Prior to the installation of the additional equipment, Pathnet agrees to provide GTE an application form with an updated equipment listing that includes the new equipment to be installed in Pathnet's collocation arrangement. Once the equipment list is submitted to GTE, Pathnet may proceed with the augment. Pathnet agrees that changes in equipment provided by Pathnet under this provision will not exceed the engineering specifications for power and HVAC as requested on original application. All augments will be subject to Company inspection, in accordance with term of this contract for the purpose of ensuring compliance with Company safety standards.

3.6 Expansion.

GTE will not be required to construct additional space to provide for caged, cageless and/or adjacent collocation when available space has been exhausted. Where Pathnet seeks to expand its existing collocation space, GTE shall make contiguous space available to the extent possible; provided, however, GTE does not guarantee contiguous space to Pathnet to expand its existing collocation space. Pathnet requests for expansion of existing space within a specific wire center or access tandem will require the submission of an application form and the appropriate Major Augment fee.

3.7 Relocation.

Pathnet requests for relocation of the termination equipment from one location to a different location within the same wire center or access tandem will be handled on an ICB basis. Pathnet will be responsible for all costs associated with the relocation of its equipment.

4. Installation and Operation.

4.1 Planning and Coordination.

Upon receipt of the ASR and fifty percent (50%) of the applicable NRCs, as set forth in Appendix G described in Section 6.1, associated with the ordered collocation services, GTE will:

- (a) Schedule a meeting with Pathnet to determine engineering and network requirements.
- (b) Initiate the necessary modifications to the wire center or access tandem to accommodate Pathnet's request.
- (c) Work cooperatively with Pathnet to ensure that services are installed in accordance with the service requested.

Pathnet is responsible for coordinating with GTE to ensure that services are installed in accordance with the ASR. Pathnet shall meet with GTE, if requested by GTE, to review design and work plans for installation of Pathnet's designated equipment within GTE premises. GTE and Pathnet must meet and begin implementation of the ASR within six (6) months of receipt of the collocation application form and engineering fee(s) set forth in Appendix G described in Section 6.1 or the identified space may be reclaimed and made available for use as provided in Section 5.6. Pathnet is responsible to have all cables and

other equipment to be furnished by Pathnet ready for installation on the date scheduled. If Pathnet fails to notify GTE of a delay in the installation date, Pathnet will be subject to the appropriate additional labor charge set forth on Appendix G described in Section 6.1.

4.2 Space Preparation.

- 4.2.1 Cage Construction. For caged collocation, GTE will construct the cage with a standard enclosure or Pathnet may subcontract this work to a GTE approved contractor.
- 4.2.2 Site Selection/Power. GTE shall designate the space within its wire center and/or access tandem where Pathnet shall collocate its equipment. GTE shall provide, at the rates set forth in Appendix G described in Section 6.1, 48V DC power with generator and/or battery back-up, AC convenience outlet, heat, air conditioning and other environmental support to Pathnet's equipment in the same standards and parameters required for GTE equipment within that wire center or access tandem. Standard 48V DC power shall be provided in 40 amp increments. GTE will be responsible for the installation of the AC convenience outlets, overhead lighting and equipment superstructure per the established rates.
- 4.2.3 Timing. GTE shall use its best efforts to minimize the additional time required to condition collocation space, and will inform Pathnet of the time estimates as soon as possible. GTE shall complete delivery of the floor space to Pathnet within ninety (90) days of receipt of the ASR and fifty percent (50%) of the NRCs assuming that the material shipment and construction intervals for the improvements required to accommodate the request (e.g., HVAC, system/power plant upgrade/cables) are met. Space delivery within such timeframe shall also be subject to the permitting process of the local municipality. Prior to Pathnet beginning the installation of its equipment in a cage, bay or cabinet, Pathnet and GTE must conduct a walk through of the designated collocation space. Upon acceptance of the arrangement by Pathnet, billing will be initiated, access cards will be issued and Pathnet may begin installation of its equipment.

4.3 Equipment and Facilities.

- 4.3.1 Purchase of Equipment. Pathnet will be responsible for supply, purchase, delivery, installation and maintenance of its equipment and equipment bay(s) in the collocation area. If Pathnet chooses, GTE will assist Pathnet in the purchase of equipment by establishing a contact point with GTE Supply. GTE is not responsible for the design, engineering, or performance of Pathnet's equipment and provided facilities for collocation.
- 4.3.2 Permissible Equipment. Pathnet is permitted to place in its collocation space only equipment that is used or useful for interconnection or access to unbundled network elements. Pathnet shall not place in its collocation space equipment that is designed exclusively for switching or enhanced services and that are not necessary for interconnection or access to unbundled network elements. Pathnet may place in its collocation space ancillary equipment such as cross connect frames, and metal storage cabinets. Metal storage cabinets must meet GTE wire center environmental standards.
- 4.3.3 Specifications. Pathnet's facilities shall not physically, electronically, or inductively interfere with or impair the service of GTE's or other CLEC's facilities, create hazards or cause physical harm to any individual or the public. All CLEC equipment used for caged and cageless collocation must be tested to, and

expected to meet, one of the following requirements as described in the CSP: (a) be tested to, and fully meet, Network Equipment Building Systems (NEBS) Level 3 requirements; or (b) be tested to, and meet, at least the NEBS Level 1 family of requirements as described in Bellcore Special Report SR-3580, plus specific additional risk/safety/hazard criteria specified in the CSP. Equipment that does not conform to this requirement must be installed in a compliant NEBS Level 3 cabinet. However, any CLEC equipment that does not conform to NEBS Level 1 will not be allowed to be installed.

GTE reserves the right to remove and/or refuse use of CLEC facilities and equipment from its list of approved products if such products, facilities, and equipment are determined to be no longer compliant with NEBS standards or Electromagnetic Compatibility and Electrical Safety Generic Criteria for Network Telecommunications Equipment (GR-1089-CORE). GTE also reserves the right to remove and/or refuse use of Pathnet facilities or equipment which does not meet or comply with: (a) fire and safety codes; (b) the same specific risk/safety/hazard standards which GTE imposes on its own wire center and access tandem equipment; (c) GTE practices for AC/DC bonding and grounding requirements; and/or (d) the industry standard requirements shown in the following publications:

- (a) TR-NWT-000499
- (b) TR-NWT-000063
- (c) TR-TSY-000191
- (d) TR-TSY-000487
- (e) TR-NPL-000320
- (f) Part 15.109 (47 C.F.R. FCC Rules and Regulations)
- (g) ANSI T1.102
- (h) UL 94

More detailed specifications information will be provided to Pathnet in the CSP.

- 4.3.4 Cable. Pathnet is required to provide proper cabling, based on circuit type (VF, DS0, xDSL, DS1, DS3, etc.) to ensure adequate shielding. GTE cable standards (which are set forth in the CSP) are required to reduce the possibility of interference. Pathnet is responsible for providing fire retardant riser cable that meets GTE standards. GTE is responsible for placing Pathnet's fire retardant riser cable from the cable vault to the collocation space. GTE is responsible for installing Pathnet provided fiber optic cable in the cable space or conduit from the first manhole outside of the wire center or access tandem into the wire center or access tandem. This may be shared conduit with dedicated inner duct. Where Pathnet is providing underground fiber optic cable in the first manhole outside of the wire center or access tandem, it must be of sufficient length as specified by GTE to be pulled through the wire center or access tandem to Pathnet's collocation space. Due to physical and technical constraints, removal of cable will be at GTE's option. GTE will make every effort to contact Pathnet in the event Pathnet's equipment disrupts the network. If GTE is unable to make contact with Pathnet, GTE shall temporarily disconnect Pathnet's service, as provided in Section 4.7.

GTE will notify Pathnet as soon as possible after any disconnects of Pathnet's equipment.

- 4.3.5 Manhole/Splicing Restrictions. GTE reserves the right to prohibit all equipment and facilities, other than fiber optic cable, in its manholes. Pathnet will not be permitted to splice fiber optic cable in the first manhole outside of the wire center or access tandem. Where Pathnet is providing underground fiber optic cable in Manhole #1, it must be of sufficient length as specified by GTE to be pulled through the wire center or access tandem to Pathnet's collocation space. GTE is responsible for installing a cable splice, if necessary, where Pathnet provided fiber optic cable meets GTE standards within the wire center or access tandem cable vault or designated splicing chamber. GTE will provide space and racking for the placement of an approved secured fire retardant splice enclosure.
- 4.3.6 Access Points and Restrictions. The interconnection point for caged and cageless collocation is the point where Pathnet-owned cable facilities connect to GTE termination equipment. The demarcation point for Pathnet is Pathnet's terminal equipment or interconnect/cross connect panel within Pathnet's cage, bay/frame or cabinet. Pathnet must tag all entrance facilities to indicate ownership. Pathnet will not be allowed access to GTE's DSX line-ups, MDF or any other GTE facility termination points. The DSX and MDF are to be considered GTE demarcation points only. Only GTE employees, agents or contractors will be allowed access to the MDF or DSX to terminate facilities, test connectivity, run jumpers and/or hot patch in-service circuits.
- 4.3.7 Staging Area. For caged and cageless collocation arrangements, Pathnet shall have the right to use a designated staging area, a portion of the wire center(s) or access tandem(s) and loading areas, if available, on a temporary basis during Pathnet's equipment installation work in the collocation space. Pathnet is responsible for protecting GTE's equipment and wire center or access tandem walls and flooring within the staging area and along the staging route. Pathnet will meet all GTE fire, safety, security and environmental requirements. The temporary staging area will be vacated and delivered to GTE in an acceptable condition upon completion of the installation work. Pathnet may also utilize a staging trailer, which can be located on the exterior premises of GTE's wire center or access tandem. GTE may assess Pathnet a market value lease rate for the area occupied by the trailer.
- 4.3.8 Testing. Upon installation of Pathnet's equipment, and with prior notice, GTE will schedule time to work with Pathnet during the turn-up phase of the equipment to ensure proper functionality between Pathnet's equipment and the connections to GTE equipment. The time period for this to occur will correspond to GTE's maintenance window installation requirements. It is solely the responsibility of Pathnet to provide their own monitor and test points, if required, for connection directly to their terminal equipment.
- 4.3.9 Collocator to Collocator Interconnect Arrangements. GTE shall provide, upon Pathnet's request, a Collocator to Collocator Interconnect arrangement between Pathnet's equipment and the equipment of other collocated CLECs. When initiating a Collocator to Collocator Interconnect request, Pathnet must submit and Application Form, ASR, and a Minor Augment fee. GTE will be responsible for engineering and installing the overhead superstructure for the Collocator to Collocator Interconnect arrangement, if required, and determining the appropriate cable route. Pathnet has the option of providing all cables and connectors and the

option of pulling the cables for the Collocator to Collocator Interconnect arrangement. If GTE provides the cables and connectors and/or pulls the cable, the applicable cable and labor rates will be applied.

4.4 Access to Collocation Space.

GTE will permit Pathnet's employees, agents, and contractors approved by GTE to have direct access to Pathnet's caged or cageless collocated equipment twenty-four (24) hours a day, seven (7) days a week. Pathnet's employees, agents, or contractors must comply with the policies and practices of GTE pertaining to fire, safety, and security as described in GTE's Security Procedures and Requirements Guidelines, which are attached to the CSP. GTE reserves the right, with 24 hours prior notice to Pathnet, to access Pathnet's collocated partitioned space to perform periodic inspections to ensure compliance with GTE installation, safety and security practices. Where Pathnet shares a common entrance to the wire center or access tandem with GTE, the reasonable use of shared building facilities, e.g., elevators, unrestricted corridors, etc., will be permitted. However, access to such facilities may be restricted by security requirements for good cause shown, and a GTE employee may accompany Pathnet's personnel.

4.5 Network Outage, Damage and Reporting.

Pathnet shall be responsible for: (a) any damage or network outage occurring as a result of Pathnet owned or Pathnet designated termination equipment in GTE wire center or access tandem; (b) providing trouble report status when requested; (c) providing a contact number that is readily accessible 24 hours a day, 7 days a week; (d) notifying GTE of significant outages which could impact or degrade GTE's switches and services and provide estimated clearing time for restoral; and (e) testing its equipment to identify and clear a trouble report when the trouble has been sectionalized (isolated) to Pathnet service.

4.6 Security Requirements.

4.6.1 Background Tests: Training. All employees, agents and contractors of Pathnet must meet certain minimum requirements as established in GTE's CSP. At the time Pathnet places the collocation ASR for caged or cageless collocation, or as soon as reasonably practicable thereafter, Pathnet must submit to GTE's Security Department for prior approval the background investigation certification form included in the CSP for all employees, agents and contractors that will require access to GTE wire centers and/or access tandems. Pathnet agrees that its employees/vendors with access to GTE wire center(s) or access tandem(s) shall at all times adhere to the rules of conduct established by GTE for the wire center or access tandem and GTE's personnel and vendors. GTE reserves the right to make changes to such procedures and rules to preserve the integrity and operation of GTE's network or facilities or to comply with applicable laws and regulations. GTE will provide Pathnet with written notice of such changes. Where applicable, GTE will provide information to Pathnet on the specific type of security training required so Pathnet's employees can complete such training.

4.6.2 Security Standards. GTE will be solely responsible for determining the appropriate level of security in each wire center or access tandem. GTE reserves the right to deny access to GTE buildings for any Pathnet employee, agent or contractor who cannot meet GTE's established security standards. Employees, agents or contractors of Pathnet are required to meet the same security requirements and adhere to the same work rules that GTE's employees and contractors are required to follow. GTE also reserves the right: (a) to deny access to GTE buildings for Pathnet's employee, agent and contractor for falsification of records, violation of

fire, safety or security practices and policies or other just cause; and (b) to provide a GTE employee, agent or contractor to accompany and observe Pathnet at no cost to Pathnet. GTE may use reasonable security measures to protect its equipment, including enclosing its equipment in its own cage or other separation, utilizing monitored card reader systems, digital security cameras, badges with computerized tracking systems, identification swipe cards, keyed access and/or logs, as deemed appropriate by GTE.

- 4.6.3 Access Cards/Identification. Access cards or keys will be provided to no more than six (6) individuals for Pathnet for each GTE wire center or access tandem. All Pathnet employees, agents and contractors requesting access to the wire center or access tandem are required to have a photo identification card, which identifies the person by name and the name of Pathnet. The ID must be worn on the individual's exterior clothing while on GTE premises. GTE will provide Pathnet with instructions and necessary access cards or keys to obtain access to GTE buildings. Pathnet is required to immediately notify GTE by the most expeditious means, when any Pathnet's employee, agent or contractor with access privileges to GTE buildings is no longer in its employ, or when keys, access cards or other means of obtaining access to GTE buildings are lost, stolen or not returned by an employee, agent or contractor no longer in its employ. Pathnet is responsible for the immediate retrieval and return to GTE of all keys, access cards or other means of obtaining access to GTE buildings upon termination of employment of Pathnet's employee and/or termination of service. Pathnet shall be responsible for the replacement cost of keys, access cards or other means of obtaining access when lost, stolen or failure of Pathnet or Pathnet's employee, agent or contractor to return to GTE.

4.7 Emergency Access.

Pathnet is responsible for providing a contact number that is readily accessible 24 hours a day, 7 days a week. Pathnet will provide access to its collocation space at all times to allow GTE to react to emergencies, to maintain the building operating systems (where applicable and necessary) and to ensure compliance with OSHA/GTE regulations and standards related to fire, safety, health and environment safeguards. GTE will attempt to notify Pathnet in advance of any such emergency access. If advance notification is not possible GTE will provide notification of any such entry to Pathnet as soon as possible following the entry, indicating the reasons for the entry and any actions taken which might impact Pathnet's facilities or equipment and its ability to provide service. GTE will restrict access to Pathnet's collocation space to persons necessary to handle such an emergency.

The emergency provisioning and restoration of interconnection service shall be in accordance with Part 64, Subpart D, Paragraph 64.401, of the FCC's Rules and Regulations, which specifies the priority for such activities. GTE reserves the right, without prior notice, to access Pathnet's collocation space in an emergency, such as fire or other unsafe conditions, or for purposes of averting any threat of harm imposed by Pathnet or Pathnet's equipment upon the operation of GTE's equipment, facilities and/or employees located outside Pathnet's collocation space. GTE will notify Pathnet as soon as possible when such an event has occurred. In case of a GTE work stoppage, Pathnet's employees, contractors or agents will comply with the emergency operation procedures established by GTE. Such emergency procedures should not directly affect Pathnet's access to its premises, or ability to provide service. Pathnet will notify GTE point of contact of any work stoppages by Pathnet employees.

5. Space Requirements.

5.1 Space Availability.

GTE shall permit Pathnet to secure collocation space on a the first-come, first-serve priority basis upon GTE's receipt of fifty percent (50%) of the applicable NRCs described in Section 4.1. If GTE is unable to accommodate caged and cageless collocation requests at a wire center or access tandem due to space limitations or other technical reasons, GTE will post a list of all such sites on its Website and will update the list within ten (10) business days of any known changes. This information will be listed at the following public Internet URL:

<http://www.gte.com/Regulatory>

Where GTE is unable to accommodate caged and cageless collocation requests at a wire center or access tandem due to space limitations or other technical reasons, GTE shall: (a) submit to the state commission, subject to any protective order as the state may deem necessary, detailed floor plans or diagrams of the wire center or access tandem; and (b) allow Pathnet to tour the entire premises of the wire center or access tandem, without charge, within (10) business days of the tour request.

5.2 Minimum/Maximum/Additional Space.

The minimum amount of floor space available to Pathnet at the time of the initial application will be twenty-five (25) square feet of caged collocation space or one (1) single bay in the case of cageless collocation. The maximum amount of space available in a specific wire center or access tandem to Pathnet will be limited to the amount of existing suitable space which is technically feasible to support the collocation arrangement requested. Existing suitable space is defined as available space in a wire center or access tandem which does not require the addition of AC/DC power, heat and air conditioning, battery and/or generator back-up power and other requirements necessary for provisioning collocation services. Additional space to provide for caged, cageless and/or adjacent collocation will be provided on a per request basis, where available. Additional space can be requested by Pathnet by completing and submitting a new application form and the applicable non-refundable engineering fee set forth in Appendix G described in Section 6.1. GTE will not be required to lease additional space when available space has been exhausted.

5.3 Use of Space.

GTE and Pathnet will work cooperatively to determine proper space requirements, and efficient use of space. In addition to other applicable requirements set forth in this Agreement, Pathnet shall install all its equipment within its designated area in contiguous line-ups in order to optimize the utilization of space within GTE's premises. Pathnet shall use the collocation space solely for the purposes of installing, maintaining and operating Pathnet's equipment to interconnect for the exchange of traffic with GTE and/or for purposes of accessing unbundled network elements and for no other purposes. Pathnet shall not construct improvements or make alterations or repairs to the collocation space without the prior written approval of GTE. The collocation space may not be used for administrative purposes and may not be used as Pathnet's employee(s) work location, office or retail space, or storage. The collocation space shall not be used as Pathnet's mailing or shipping address.

5.4 Reservation of Space.

GTE reserves the right to manage its wire center and access tandem conduit requirements and to reserve vacant space for planned facility. GTE will retain and reserve a limited amount of vacant floor space within its wire centers and access tandems for its own

specific future uses on terms no more favorable than applicable to other CLECs seeking to reserve collocation space for their own future use. If the remaining vacant floor space within a wire center or access tandem is reserved for GTE's own specific future use, the wire center or access tandem will be exempt from future caged and cageless collocation requests. subject to Commission approval Pathnet shall not be permitted to reserve wire center or access tandem cable space or conduit system. If new conduit is required, GTE will negotiate with Pathnet to determine an alternative arrangement for the specific location.

Pathnet will be allowed to reserve collocation space for its caged/cageless arrangements based on Pathnet's documented forecast provided GTE and subject to space availability. Such forecast must demonstrate a legitimate need to reserve the space for use on terms no more favorable than applicable to GTE seeking to reserve vacant space for its own specific use. Cageless collocation bays may not be used solely for the purpose of storing Pathnet equipment.

5.5 Collocation of Space Report.

Upon request by Pathnet and upon Pathnet signing a collocation nondisclosure agreement, GTE will make available a collocation space report with the following information for the wire center or access tandem requested:

- (a) Amount of caged and cageless collocation space available;
- (b) Number of telecommunications carriers with existing collocation arrangements;
- (c) Modifications of the use of space since the last collocation space report requested; and,
- (d) Measures being taken, if any, to make additional collocation spaces available.

The collocation space report is not required prior to the submission of a collocation application for a specific wire center or access tandem in order to determine collocation space availability for the wire center or access tandem. The collocation space report will be provided to Pathnet within ten (10) business days of the request provided the request is submitted during the ordinary course of business. A collocation space report fee contained in Appendix G will be assessed per request and per wire center or access tandem.

5.6 Reclamation.

When initiating an application form, Pathnet must have started installing equipment approved for collocation at GTE wire center or access tandem within a reasonable period of time, not to exceed six (6) months from the date Pathnet accepts the collocation arrangement. If Pathnet does not utilize its collocation space within the established time period, and has not met the space reservation requirements of Section 5.4, GTE may reclaim the unused collocation space to accommodate another CLEC's request or GTE's future space requirements. GTE shall have the right, for good cause shown, and upon six (6) months' notice, to reclaim any collocation space, cable space or conduit space in order to fulfill its obligation under public service law and its tariffs to provide telecommunication services to its end users. In such cases, GTE will reimburse Pathnet for reasonable direct costs and expenses in connection with such reclamation. GTE will make every reasonable effort to find other alternatives before attempting to reclaim any such space.

6. Pricing.

6.1 Rate Sheet.

Except as otherwise described herein, the rates for GTE's collocation services provided pursuant to this Agreement are set forth in Appendix G attached hereto. The rates identified in this attachment may be superseded by rates contained in future final, binding and non-appealable regulatory orders or as otherwise required by legal requirements (the "final rates"). In particular, GTE may elect to file a state tariff which shall contain final rates that supersede the rates in said attachment. To the extent that the final rates, or the terms and conditions for application of the final rates, are different than the rates in Appendix G, the final rates will be applied retroactively to the effective date of this Agreement. The Parties will true up any resulting over or under billing.

6.2 Billing and Payment.

The initial payment of NRCs shall be due and payable in accordance with Section 4.1. The balance of the NRCs and all related monthly recurring service charges will be billed to Pathnet when GTE provides Pathnet access to the caged, cageless or adjacent collocation arrangement and shall be payable in accordance with applicable established payment deadlines.

6.3 Allocation of Site Preparation Costs.

Pathnet shall be responsible for payment of the site preparation charge with respect to: (i) each original application; and (ii) each additional application or augment application which involves expansion of existing square footage or additional bays. The site preparation charge is a nonrecurring charge designed to recover GTE's costs associated with preparing wire center(s) or access tandem(s) to accommodate collocation. For caged collocation arrangements (including shared and sublease arrangements), the site preparation charge shall be applied on a per square foot basis. . For cageless collocation arrangements, the site preparation charge shall be applied on a per bay basis. Site preparation rates are specified in Appendix G.

7. Indemnification.

In addition to their other respective indemnification and liability obligations hereunder, the Parties shall meet the following obligations. To the extent that this provision conflicts with any other provision in this Agreement, this provision shall control.

7.1 Pathnet shall defend, indemnify and save harmless GTE, its directors, officers, employees, servants, agents, affiliates and parent from and against any and all suits, claims, demands, losses, claims, and causes of action and costs, including reasonable attorneys' fees, whether suffered, made, instituted or asserted by Pathnet or by any other party, which are caused by, arise out of or are in any way related to: (i) the installation, maintenance, repair, replacement, presence, engineering, use or removal of Pathnet's equipment or by the proximity of such equipment to the equipment of other parties occupying space in GTE's wire center(s) or access tandem(s), including, without limitation, damages to property and injury or death to persons, including payments made under Workers' Compensation Law or under any plan for employees' disability and death benefits; (ii) Pathnet's failure to comply with any of the terms of this Agreement; or (iii) any act or omission of Pathnet, its employees, agents, affiliates, former or striking employees or contractors. The obligations of this Section shall survive the termination, cancellation, modification or rescission of this Agreement, without limit as to time.

7.2 Subject to any limitations of liability set forth in this Agreement, GTE shall be liable to Pathnet only for and to the extent of any damage directly and primarily caused by the negligence of GTE's agents or employees to Pathnet designated facilities or equipment occupying GTE's wire center or access tandem. GTE shall not be liable to Pathnet or its customers for any interruption of Pathnet's service or for interference with the operation of Pathnet's designated facilities arising in any manner out of Pathnet's presence in GTE's wire center(s) or access tandem(s), unless such interruption or interference is caused by GTE's willful misconduct. In no event shall GTE or any of its directors, officers, employees, servants, agents, affiliates and parent be liable for any loss of profit or revenue by Pathnet or for any loss of AC or DC power, HVAC interruptions, consequential, incidental, special, punitive or exemplary damages incurred or suffered by Pathnet, even if GTE has been advised of the possibility of such loss or damage. GTE's failure to meet any of its obligations under this Agreement shall be excused by labor difficulties, governmental orders, civil commotions, acts of God or any circumstances beyond GTE's reasonable control.

8. Insurance.

8.1 Coverage Limits. Pathnet shall, at its sole cost and expense, obtain, maintain, pay for and keep in force the following minimum insurance, underwritten by an insurance company(s) having a Best's insurance rating of at least A-, financial size category VII.

- (a) Commercial general liability coverage on an occurrence basis in an amount of \$1,000,000 combined single limit for bodily injury and property damage with a policy aggregate per location of \$2,000,000. This coverage shall include contractual liability.
- (b) Umbrella/Excess Liability coverage in an amount of \$10,000,000 excess of coverage specified in (a) above.
- (c) All Risk Property coverage on a full replacement cost basis insuring all of Pathnet's real and personal property located on or within GTE wire centers. Pathnet may also elect to purchase business interruption and contingent business interruption insurance, knowing that GTE has no liability for loss of profit or revenues should an interruption of service occur.
- (d) Statutory Workers Compensation coverage.
- (e) Employers Liability coverage in an amount of \$500,000 each accident.
- (f) Commercial Automobile Liability coverage insuring all owned, hired and non-owned automobiles.

Notwithstanding anything herein to the contrary, the coverage requirements described in (c)-(f) above shall only be required if Pathnet orders collocation services pursuant to this Article IX. The minimum amounts of insurance required in this section, may be satisfied by Pathnet purchasing primary coverage in the amounts specified or by Pathnet buying a separate umbrella and/or excess policy together with lower limit primary underlying coverage. The structure of the coverage is at Pathnet's option, so long as the total amount of insurance meets GTE's minimum requirements.

8.2 Deductibles. Any deductibles, self-insured retentions (SIR), loss limits, retentions, etc. (collectively, "retentions") must be disclosed on a certificate of insurance provided to GTE,

and GTE reserves the right to reject any such retentions in its reasonable discretion. All retentions shall be the responsibility of the Pathnet.

- 8.3 Additional Insureds. GTE and its affiliates (which includes any corporation controlled by, controlling or in common control with GTE Corporation), its respective directors, officers and employees shall be named as additional insureds under all General Liability and Umbrella/Excess Liability Policies obtained by Pathnet. Said endorsement shall provide that such additional insurance is primary insurance and shall not contribute with any insurance or self-insurance that GTE has secured to protect itself. All of the insurance afforded by the Pathnet shall be primary in all respects, including Pathnet's Umbrella/Excess Liability insurance. GTE's insurance coverage shall be excess over any indemnification and insurance afforded by Pathnet and required hereby.
- 8.4 Waiver of Subrogation Rights. Pathnet waives and will require all of its insurers to waive all rights of subrogation against GTE (including GTE Corporation and any other affiliated and/or managed entity), its directors, officers and employees, agents or assigns, whether in contract, tort (including negligence and strict liability) or otherwise.
- 8.5 Evidence of Insurance. All insurance must be in effect on or before GTE authorizes access by Pathnet employees or placement of Pathnet equipment or facilities within GTE premises and such insurance shall remain in force as long as Pathnet's facilities remain within any space governed by this Agreement. If Pathnet fails to maintain the coverage, GTE may pay the premiums and seek reimbursement from Pathnet. Failure to make a timely reimbursement will result in disconnection of service. Pathnet agrees to submit to GTE a certificate of insurance ACORD Form 25-S (1/95), or latest edition, such certificate to be signed by a duly authorized officer or agent of the Insurer, certifying that the minimum insurance coverages and conditions set forth herein are in effect, and that GTE will receive at least thirty (30) days notice of policy cancellation, expiration or non-renewal. At least thirty (30) days prior to the expiration of the policy, GTE must be furnished satisfactory evidence that such policy has been or will be renewed or replaced by another policy. At GTE's request, Pathnet shall provide copies of the insurance provisions or endorsements as evidence that the required insurance has been procured, and that GTE has been named as an additional insured, prior to commencement of any service. In no event shall permitting Pathnet access be construed as a waiver of the right of GTE to assert a claim against Pathnet for breach of the obligations established in this section.
- 8.6 Compliance Requirements. Pathnet shall require its contractors to comply with each of the provisions of this insurance section. This includes, but is not limited to, maintaining the minimum insurance coverages and limits, naming GTE (including GTE Corporation and any other affiliated and/or managed entity) as an additional insured under all liability insurance policies, and waiving all rights of subrogation against GTE (including GTE Corporation and any other affiliated and/or managed entity), its directors, officers and employees, agents or assigns, whether in contract, tort (including negligence and strict liability) or otherwise. Prior to commencement of any work, Pathnet shall require and maintain certificates of insurance from each contractor evidencing the required coverages. At GTE's request, Pathnet shall supply to GTE copies of such certificates of insurance or require the contractors to provide insurance provisions or endorsements as evidence that the required insurance has been procured. Pathnet must also conform to the recommendation(s) made by GTE's fire insurance company, which GTE has already agreed to or shall hereafter agree to.

9. Confidentiality.

In addition to its other confidentiality obligations hereunder, Pathnet shall not use or disclose and shall hold in confidence all information of a competitive nature provided to Pathnet by GTE in connection with collocation or known to Pathnet as a result of Pathnet's access to GTE's wire center(s) or access tandem(s) or as a result of the interconnection of Pathnet's equipment to GTE's facilities. Similarly, GTE shall not use or disclose and shall hold in confidence all information of a competitive nature provided to it by Pathnet in connection with collocation or known to GTE as a result of the interconnection of Pathnet's equipment to GTE's facilities. Such information is to be considered proprietary and shared within GTE and Pathnet on a need to know basis only. Neither GTE nor Pathnet shall be obligated to hold in confidence information that:

- (a) Was already known to Pathnet free of any obligation to keep such information confidential;
- (b) Was or becomes publicly available by other than unauthorized disclosure; or
- (c) Was rightfully obtained from a third party not obligated to hold such information in confidence.

To the extent that this provision conflicts with any other provision in this Agreement, this provision shall control.

10. Casualty.

If the collocation equipment location in GTE's wire center(s) or access tandem(s) is rendered wholly unusable through no fault of Pathnet, or if the building shall be so damaged that GTE shall decide to demolish it, rebuild it, or abandon it for wire center or access tandem purposes (whether or not the demised premises are damaged in whole or in part), then, in any of such events, GTE may elect to terminate the collocation arrangements in the damaged building by providing written notification to Pathnet as soon as practicable but no later than one hundred eighty (180) days after such casualty specifying a date for the termination of the collocation arrangements, which shall not be more than sixty (60) days after the giving of such notice. Upon the date specified in such notice, the term of the collocation arrangement shall expire as fully and completely as if such date were the date set forth above for the termination of this Agreement. Pathnet shall forthwith quit, surrender and vacate the premises without prejudice. Unless GTE shall serve a termination notice as provided for herein, GTE shall make the repairs and restorations with all reasonable expedition subject to delays due to adjustment of insurance claims, labor troubles and causes beyond GTE's reasonable control. After any such casualty, Pathnet shall cooperate with GTE's restoration by removing from the collocation space, as promptly as reasonably possible, all of Pathnet's salvageable inventory and movable equipment, furniture and other property. GTE will work cooperatively with Pathnet to minimize any disruption to service, resulting from any damage. GTE shall provide written notification to Pathnet detailing its plans to rebuild and will restore service as soon as practicable. In the event of termination, GTE's rights and remedies against Pathnet in effect prior to such termination, and any fees owing, shall be paid up to such date. Any payments of fees made by Pathnet which were because any period after such date shall be returned to Pathnet.

11. Termination of Service.

11.1 Grounds for Termination. GTE's obligation to provide collocation is contingent upon Pathnet's compliance with the terms and conditions of this Article IX and other applicable requirements of this Agreement, including, without limitation, GTE's receipt of all applicable fees, rates, charges, application forms and required permits. Failure of Pathnet to make payments when due, and after reasonable notice of default has been duly given pursuant to this agreement, may result in termination of service. In addition to the other grounds for

termination of collocation services set forth herein, GTE also reserves the right to terminate such services upon thirty (30) days notice in the event Pathnet: (a) is not in conformance with GTE standards and requirements; and/or (b) imposes continued disruption and threat of harm to GTE employees and/or network, or GTE's ability to provide service to other CLECs.

- 11.2 Effects of Termination. Upon the termination of collocation service, Pathnet shall disconnect and remove its equipment from the designated collocation space. GTE reserves the right to remove Pathnet's equipment if Pathnet fails to remove and dispose of the equipment within the thirty (30) days of discontinuance. Pathnet will be charged the appropriate additional labor charge in Appendix G for the removal of such equipment. Upon removal by Pathnet of all its equipment from the collocation space, Pathnet will reimburse GTE for the cost to restore the collocation space to its original condition at time of occupancy. The cost will be applied based on the additional labor charges rate set forth in Appendix G. Upon termination of collocation services, Pathnet relinquishes all rights, title and ownership of cable to GTE.

12. Miscellaneous.

GTE retains ownership of wire center or access tandem floor space, adjacent land and equipment used to provide all forms of collocation. GTE, consistent with the applicable rules and requirements of the Commission and the FCC, reserves for itself and its successors and assignees, the right to utilize the wire center(s) or access tandem(s) space in such a manner as will best enable it to fulfill GTE's service requirements. Pathnet does not receive, as a result of entering into a collocation arrangement hereunder, any right, title or interest in GTE's wire center facility, the multiplexing node, multiplexing node enclosure, cable space, cable racking, vault space or conduit space other than as expressly provided herein. To the extent that Pathnet requires use of a GTE local exchange line, Pathnet must order a business local exchange access line (B1). Pathnet may not use GTE official lines.

ARTICLE X

ACCESS TO POLES, DUCTS, CONDUITS AND RIGHTS-OF-WAY

To the extent required by the Act, GTE and Pathnet shall each afford to the other access to the poles, ducts, conduits and ROWs it owns or controls on terms, conditions and prices comparable to those offered to any other entity pursuant to each Party's tariffs and/or standard agreements. Accordingly, if GTE and Pathnet desire access to the other Party's poles, ducts, or ROWs, GTE and Pathnet shall execute pole attachment and conduit occupancy agreements. Pathnet agrees that pole attachment and conduit occupancy agreements must be executed separately before it makes any attachments to GTE facilities or uses GTE's conduit according to the terms of this Agreement. Unauthorized attachments or unauthorized use of conduit to the extent used for services provided under this agreement will be a breach of this agreement

ARTICLE XI
SIGNATURE PAGE

IN WITNESS WHEREOF, each Party has executed this Agreement to be effective upon approval by the Commission in accordance with Section 252 of the Act. The "effective date" of this Agreement for such purposes will be established by the Commission approval order.

GTE SOUTH INCORPORATED

PATHNET, INC.

By Connie Nicholas

By J. Alfred Baird

Name Connie Nicholas

Name J. ALFRED BAIRD

Title Assistant Vice President
Wholesale Markets-Interconnection

Title VICE PRESIDENT ACCESS Policy & Planning

Date June 26, 2000

Date JUNE 20, 2000

APPROVED BY	
LEGAL DEPT	
TDP	6/19/00
ATTORNEY	DATE

APPENDIX A

RATES AND CHARGES FOR
TRANSPORT AND TERMINATION OF TRAFFIC

General. The rates contained in this Appendix A are the rates as defined in Article V and are subject to change resulting from future Commission or other proceedings, including but not limited to any generic proceeding to determine GTE's unrecovered costs (e.g., historic costs, contribution, undepreciated reserve deficiency, or similar unrecovered GTE costs (including GTE's interim Universal Service Support Surcharge)), the establishment of a competitively neutral universal service system, or any appeal or other litigation.

Each Party will bill the other Party as appropriate:

- A. The Local Interconnection rate element that applies to Local Traffic on a minute of use basis that each Party switches for termination purposes at its wire centers. The local interconnection rate is **\$0.0059446**.
- B. The Tandem Switching rate element that applies to tandem routed Local Traffic on a minute of use basis. The tandem switching rate is **\$0.0035977**.
- C. The Common Transport Facility rate element that applies to tandem routed Local Traffic on a per minute/per mile basis. The Common Transport Facility rate is **\$0.0000325**.
- D. The Common Transport Termination element that applies to tandem routed Local Traffic on a per minute/per termination basis. The Common Transport Termination rate is **\$0.0001733**.

- E. The Tandem Transiting Charge is comprised of the following rate elements:

Tandem Switching:	=	\$0.0035977
Tandem Transport (10 mile average): 10 x \$0.0000325	=	\$0.0003250
Transport Termination (2 Terminations): 2 x \$0.0001733	=	\$0.0003466
Transiting Charge:	=	\$0.0042693

- F. Initial Factors:

1. PLU	95%
2. Initial Proportionate Share Factor	50%
3. Exempt Factor	5%

APPENDIX B

RATES AND CHARGES FOR NUMBER PORTABILITY

General. The rates contained in this Appendix B are as defined in Article V, and are subject to change resulting from future Commission or other proceedings, including but not limited to any generic proceeding to determine GTE's unrecovered costs (e.g., historic costs, contribution, undepreciated reserve deficiency, or similar unrecovered GTE costs (including GTE's interim Universal Service Support Surcharge)), the establishment of a competitively neutral universal service system, or any appeal or other litigation.

Interim Number Portability

Remote Call Forwarding	\$ 3.90 line/month
Simultaneous Call Capability	\$ 2.60 path/month

Non-Recurring Charges for Interim Number Portability

Pre-ordering

CLEC Account Establishment Per CLEC	\$ 273.09
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Ordering and Provisioning

Initial Service Order	\$ 41.58
Subsequent Service Order	\$ 29.73
Manual Ordering Charge	\$ 12.17

Custom Handling (Applicable to both INP and LNP)

Service Order Expedite	\$ 12.59
Coordinated Conversion	\$ 17.76
Hot Coordinated Conversion First Hour	\$ 30.55
Hot Coordinated Conversion Per Additional Quarter Hour	\$ 4.88

Application of NRCs

Pre-ordering:

CLEC Account Establishment is a one-time charge applied the first time that Pathnet orders any service from this Agreement.

Ordering and Provisioning:

Initial Service Order (ISO) applies per Local Service Request (LSR) if not apart of a Unbundled Network Element (UNE) ISO.

Subsequent Service Order applies per LSR for modifications to an existing LNP service.

Manual Ordering Charge applies to orders that require GTE to manually enter Pathnet's order into GTE's Secure Integrated Gateway System (SIGS), e.g. faxed orders and orders sent via physical or

electronic mail.

Custom Handling (These NRCs are in addition to any Preordering or Ordering and Provisioning NRCs):

Service Order Expedite applies if Pathnet requests service prior to the standard due date intervals and if not a part of a UNE Expedite.

Coordinated Conversion applies if Pathnet requests notification and coordination of service cut-over prior to the service becoming effective and if not a part of a UNE Coordinated Conversion.

Hot Coordinated Conversion First Hour applies if Pathnet requests real-time coordination of a service cut-over that takes one hour or less, and if not a part of a UNE Hot Coordinated Conversion First Hour.

Hot Coordinated Conversion Per Additional Quarter Hour applies, in addition to the Hot Coordinated Conversion First Hour, for every 15-minute segment of real-time coordination of a service cut-over that takes more than one hour, and if not a part of a UNE Hot Coordinated Conversion Per Additional Quarter Hour.

In addition, as defined in the Interconnection Attachment, the Party providing the ported number will pay the other Party the following rate per line per month for each ported business line and the rate per line per month for each ported residential line for the sharing of Access Charges on calls to ported numbers.

Business Rate Per Line Per Month:	\$ 5.18
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Residential Rate Per Line Per Month:	\$ 3.71
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APPENDIX C

SERVICES AVAILABLE FOR RESALE

General. The rates for resold services are based upon an avoided cost discount from GTE's retail rates. The avoided cost discount is based upon GTE's most current available cost studies and are subject to change resulting from future Commission or other proceedings, including but not limited to any generic proceeding to determine GTE's unrecovered costs (e.g., historic costs, contribution, undepreciated reserve deficiency, or similar unrecovered GTE costs (including GTE's interim Universal Service Support Surcharge)), the establishment of a competitively neutral universal service system, or any appeal or other litigation.

Interim Universal Service Charge. It is GTE's position that GTE's current intraLATA toll rates include implicit subsidies that support below-cost prices for other services and thus promote universal service. This universal service support is lost where a CLEC resells GTE's local service but does not resell GTE's intraLATA toll service. For this reason, GTE will not resell basic exchange residential or business services unless Pathnet pays the monthly interim universal service support charge set forth in Article VI. GTE believes that this interim surcharge is required by state and federal law. The lawfulness of GTE's interim surcharge is being addressed (or will be addressed) by the Commission or a court of competent jurisdiction.

The parties agree that GTE will offer for resale basic exchange residential and business services at the avoided cost discount rate set forth in Article VI without the interim surcharge, but subject to the following terms and conditions:

- A. Pathnet agrees that within thirty (30) calendar days after the effective date of a Commission or court order affirming GTE's interim surcharge, Pathnet will (i) begin paying the monthly interim surcharge in accord with Appendix A, and (ii) make a lump sum payment to GTE of the total interim surcharges retroactive to the effective date of this Agreement.
- B. Notwithstanding any provision in this Agreement, GTE may, at its sole discretion and at any time, seek injunctive or other relief (i) requiring Pathnet to pay GTE's interim surcharge or (ii) requiring the Commission to immediately impose the interim surcharge.
- C. Nothing in this Agreement shall restrict or impair GTE from seeking injunctive relief or any other remedy at any time and in any court regarding GTE's interim surcharge or the Commission's rejection or modification of GTE's interim surcharge.

The avoided cost discount for all services, excluding OS/DA, is 15.95%.

Non-Recurring Charges (NRCs) for Resale Services

Pre-ordering

CLEC Account Establishment Per CLEC	\$ 273.09
Customer Record Search Per Account	\$ 11.69

Ordering and Provisioning

Engineered Initial Service Order (ISO) - New Service	\$ 311.98
Engineered Initial Service Order - As Specified	\$ 123.84
Engineered Subsequent Service Order	\$ 59.61
Non-Engineered Initial Service Order - New Service	\$ 42.50

Non-Engineered Initial Service Order - Changeover	\$ 21.62
Non-Engineered Initial Service Order - As Specified	\$ 82.13
Non-Engineered Subsequent Service Order	\$ 19.55
Central Office Connect	\$ 12.21
Outside Facility Connect	\$ 68.30
Manual Ordering Charge	\$ 12.17

Product Specific:

NRCs, other than those for Pre-ordering, Ordering and Provisioning, and Custom Handling as listed in this Appendix, will be charged from the appropriate retail tariff. No discount applies to such NRCs.

Custom Handling:

Service Order Expedite:	
Engineered	\$ 35.48
Non-Engineered	\$ 12.59
Coordinated Conversions:	
ISO	\$ 17.76
Central Office Connection	\$ 10.71
Outside Facility Connection	\$ 9.59
Hot Coordinated Conversion First Hour:	
ISO	\$ 30.55
Central Office Connection	\$ 42.83
Outside Facility Connection	\$ 38.34
Hot Coordinated Conversion per Additional Quarter Hour:	
ISO	\$ 4.88
Central Office Connection	\$ 9.43
Outside Facility Connection	\$ 8.37

Application of NRCs

Pre-ordering:

CLEC Account Establishment is a one-time charge applied the first time that Pathnet orders any service from this Agreement.

Customer Record Search applies when Pathnet requests a summary of the services currently subscribed to by the end-user.

Ordering and Provisioning:

Engineered Initial Service Order - New Service applies per Local Service Request (LSR) when engineering work activity is required to complete the order, e.g. digital loops.

Non-Engineered Initial Service Order - New Service applies per LSR when no engineering work

activity is required to complete the order, e.g. analog loops.

Initial Service Order - As Specified (Engineered or Non-Engineered) applies only to Complex Services for services migrating from GTE to Pathnet. Complex Services are services that require a data gathering form or has special instructions.

Non-Engineered Initial Service Order - Changeover applies only to Basic Services for services migrating from GTE to Pathnet. End-user service may remain the same or change.

Central Office Connect applies in addition to the ISO when physical installation is required at the central office.

Outside Facility Connect applies in addition to the ISO when incremental field work is required.

Manual Ordering Charge applies to orders that require GTE to manually enter Pathnet's order into GTE's Secure Integrated Gateway System (SIGS), e.g. faxed orders and orders sent via physical or electronic mail.

Custom Handling (These NRCs are in addition to any Preordering or Ordering and Provisioning NRCs):

Service Order Expedite (Engineered or Non-Engineered) applies if Pathnet requests service prior to the standard due date intervals.

Coordinated Conversion applies if Pathnet requests notification and coordination of service cut over prior to the service becoming effective.

Hot Coordinated Conversion First Hour applies if Pathnet requests real-time coordination of a service cut-over that takes one hour or less.

Hot Coordinated Conversion Per Additional Quarter Hour applies, in addition to the Hot Coordinated Conversion First Hour, for every 15-minute segment of real-time coordination of a service cut-over that takes more than one hour.

Universal Service Support Surcharge

Residential (per line)	\$ 4.88
Business (per line)	\$ 3.52

APPENDIX D

PRICES FOR UNBUNDLED NETWORK ELEMENTS

General. The rates contained in this Appendix D are the rates as defined in the UNE Attachment and are subject to change resulting from future Commission or other proceedings, including but not limited to any generic proceeding to determine GTE's unrecovered costs (e.g., historic costs, contribution, undepreciated reserve deficiency, or similar unrecovered GTE costs (including GTE's interim Service Support Surcharge)), the establishment of a competitively neutral universal service system, or any appeal or other litigation. GTE will offer unbundled loops and ports under the following conditions:

Interim Universal Service Support Charge. GTE assesses a separate interim universal service fund surcharge for loops and ports to provide continued universal service support that is implicit in GTE's current retail services prices; and to respect the careful distinctions Congress has drawn between access to UNEs, on the one hand, and the purchase at wholesale rates of GTE services on the other. This surcharge is being addressed (or will be addressed) by the Commission or a court of competent jurisdiction. The parties agree that GTE will offer the port and loop UNEs at the rates set forth below in Appendix D without the interim surcharge, but subject to the following terms and conditions:

- A. Pathnet agrees that within thirty (30) days after the effective date of a Commission or court order affirming GTE's interim surcharge, Pathnet will (i) begin paying the monthly interim surcharge in accord with Appendix D, and (ii) make a lump sum payment to GTE of the total interim surcharges retroactive to the effective date of this Agreement.
- B. Notwithstanding any provision in this Agreement, GTE may, at its sole discretion and at any time, seek injunctive or other relief (i) requiring Pathnet to pay GTE's interim surcharge or (ii) requiring the Commission to immediately impose the interim surcharge.
- C. Nothing in this Agreement shall restrict or impair GTE from seeking injunctive relief or any other remedy at any time and in any court regarding GTE's interim surcharge or the Commission's rejection or modification of GTE's interim surcharge.

Loop Elements

2 Wire Analog Loop (inclusive of NID)	\$ 45.22
4 Wire Analog Loop (inclusive of NID)	\$ 83.44
2 Wire Digital Loop (inclusive of NID)	\$ 47.16
4 Wire Digital Loop (inclusive of NID)	\$ 87.02
DS-1 Loop	\$ 160.31
DS-3 Loop	\$2,584.44
Type C Conditioning	\$ 1.46
Type C Improved Conditioning	\$ 34.39
Type DA Conditioning	\$ 1.91
Mid-Span Repeaters	\$ 74.56
Line Loop Extender	TBD

Network Interface Device (leased separately)

Basic NID	\$ 0.79
Complex (12 x) NID	\$ 1.60

Port and Switching Elements

Ports	
Basic Analog Line Side Port	\$ 5.49
Coin Line Side Port	\$ 9.91
ISDN BRI Digital Line Side Port	\$ 26.16
DS-1 Digital Trunk Side Port	\$ 196.11
ISDN PRI Digital Trunk Side Port	\$ 378.55
Vertical Features	See Attached List
Usage Charges (must purchase Port)	
Local Central Office Switching	\$0.0059446
Shared Transport	
Transport Termination	\$0.0001733
Transport Facility per mile	\$0.0000325
Tandem Switching	\$0.0035977
Terminating to Originating Ratio	1.00
Assumed Minutes	TBD
Operator and Directory Assistance Services (OS/DA)	
National DA	\$0.5500000
DA	\$0.4500000
Mechanized Operator Calling Card	\$0.0890000
Live Operator	\$0.4490000
Originating Line Number Screening	\$0.0180000
Call Detail Record	\$0.0200000
Busy Line Verify	\$0.9900000
Busy Line Interrupt	\$1.0500000

Transport Elements

CLEC Dedicated Transport	
CDT 2 Wire	\$ 26.81
CDT 4 Wire	\$ 42.90
CDT DS1	\$ 330.00
CDT DS3 (Optical Interface)	\$1,125.00
Interoffice Dedicated Transport	
IDT DS0 Transport Facility per ALM	\$ 0.27
IDT DS0 Transport Termination	\$ 11.59
IDT DS1 Transport Facility per ALM	\$ 2.85
IDT DS1 Transport Termination	\$ 80.49
IDT DS3 Transport Facility per ALM	\$ 3.65
IDT DS3 Transport Termination	\$ 118.29
Multiplexing	
DS1 to Voice Multiplexing	\$ 185.24
DS3 to DS1 Multiplexing	\$ 887.13
Ancillary	
DS3 Electrical Interface	\$1,297.18

Conditioning		
DS1 Clear Channel Capability	\$	23.22
Type C Conditioning	\$	1.46
Type C Improved Conditioning	\$	34.39
Type DA Conditioning	\$	1.91

UNE-P Pricing

MRCs. The MRC for a UNE-P will generally be equal to the sum of the MRCs for the combined UNEs (e.g. the total of the UNE loop charge plus the UNE port charges in the Agreement (see Note A) plus: UNE local switching (per minute originating usage plus T/O factor to determine terminating minutes) based on UNE local switching rates in the Agreement plus UNE shared transport and tandem switching (based on factors for percent interoffice and tandem switch usage, plus assumed transport mileage of 10 miles and 2 terms) based on UNE shared transport rates in the Agreement plus UNE Vertical Services charges (optional per line charges, if allowed by the Agreement).

(Note A): UNE platforms are available in four loop/port configurations as shown below. If the price for any component of these platforms is not set forth herein, GTE will use the ICB process to determine the appropriate price TBD pricing shall apply.

UNE Basic Analog Voice Grade Platform consists of the following components:

- UNE 2-wire Analog loop; and
- UNE Basic Analog Line Side port

UNE ISDN BRI Platform consists of the following components:

- UNE 2-wire Digital loop; and
- UNE ISDN BRI Digital Line Side port

UNE ISDN PRI Platform consists of the following components:

- UNE DS1 loop; and
- UNE ISDN PRI Digital Trunk Side port

UNE DS1 Platform consists of the following components:

- UNE DS1 loop; and
- UNE DS1 Digital Trunk Side port

NRCs. On an interim basis, until NRCs specific to UNE-P have been established, the Initial Service Order Charge for ports will be billed for all UNE combination orders. Central Office Line Connection or Outside Facility Fieldwork charges will be applied as incurred on UNE combination orders. GTE reserves the right to apply new NRCs specific to UNE-P when such NRCs have been developed.

Optional NRCs will apply as ordered by the CLEC including such charges as Expedites, Coordinated Conversions, loop Conditioning, etc.

Operator Services and Directory Assistance Services (OS/DA). If Pathnet does not initially utilize available customized routing services to re-route OS/DA calls to its own or another party's operator services platform, GTE will bill the CLEC for OS/DA calls at a market-based ICB rate pending Pathnet's completion of a separate OS/DA agreement.

Universal Service Support Surcharge

Per Loop	TBD
Per Port	TBD

Non-Recurring Charges for Unbundled Services

Pre-ordering

CLEC Account Establishment Per CLEC	\$ 273.09
Customer Record Search	\$ 11.69

Ordering and Provisioning

Loop:

Engineered Initial Service Order (ISO)	\$ 294.07
Non-Engineered ISO	\$ 49.31
Central Office Connection	\$ 12.21
Outside Facility Connection	\$ 68.30
Type C Conditioning	\$ 76.72
Type C Improved Conditioning	\$ 248.98
Type DA Conditioning	\$ 101.43

NID:

ISO	\$ 33.38
Outside Facility Connection	\$ 42.69

Port:

ISO	\$ 50.46
Subsequent Service Order	\$ 25.67
Central Office Connection	\$ 12.21

Transport:

ISO	\$ 69.92
Subsequent Service Order	\$ 68.84
Design Charge	\$ 14.99
CDT 2 Wire Connection	\$ 157.92
CDT 4 Wire Connection	\$ 157.92
CDT DS1 Wire Connection	\$ 900.00
CDT DS3 Wire Connection	\$ 900.00
DS1 to Voice Multiplex	\$ 860.64
DS3 to DS1 Multiplex	\$ 450.00
DS1 to Clear Channel Capacity	\$ 90.00
Type C Conditioning	\$ 76.72
Type C Improved Conditioning	\$ 248.98
Type DA Conditioning	\$ 101.43

Manual Ordering Charge	\$ 12.17
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Custom Handling

Service Order Expedite:

Engineered Loop LSRs	\$ 35.48
All Other LSRs	\$ 12.59

Coordinated Conversions:

ISO	\$ 17.76
Central Office Connection	\$ 10.71

Outside Facility Connection	\$	9.59
Hot Coordinated Conversion First Hour:		
ISO	\$	30.55
Central Office Connection	\$	42.83
Outside Facility Connection	\$	38.34
Hot Coordinated Conversion per Additional Quarter Hour:		
ISO	\$	6.40
Central Office Connection	\$	10.71
Outside Facility Connection	\$	9.59

Application of NRCs

Preordering:

CLEC Account Establishment is a one-time charge applied the first time that Pathnet orders any service from this Agreement.

Customer Record Search applies when Pathnet requests a summary of the services currently subscribed to by the end-user.

Ordering and Provisioning:

Initial Service Order (ISO) applies per Local Service Request (LSR).

Subsequent Service Order applies per LSR or Access Service Record (ASR) for modifications to an existing Port or Transport service.

Engineered ISO applies per LSR when engineering work activity is required to complete the order.

Non-Engineered ISO applies per LSR when no engineering work activity is required to complete the order.

Central Office Connect applies in addition to the ISO when physical installation is required at the central office.

Outside Facility Connect applies in addition to the ISO when incremental field work is required.

Design Change applies per ASR when an engineering review is required for a Transport ASR.

CDT Connection applies in addition to the ISO, per facility for the installation of CDT products.

Multiplexing applies in addition to the ISO, per arrangement for the installation of Multiplexing arrangements.

Conditioning applies in addition to the ISO, per Loop or Transport Facility for the installation and grooming of Conditioning requests.

DS1 Clear Channel Capability applies in addition to the ISO, per DS1 for the installation and grooming of DS1 Clear Channel Capability requests.

Manual Ordering Charge applies to orders that requires GTE to manually enter Pathnet's order into GTE's Secure Integrated Gateway System (SIGS), e.g. faxed orders and orders sent via physical or electronic mail.

Custom Handling (These NRCs are in addition to any Preordering or Ordering and Provisioning NRCs):

Service Order Expedite applies if Pathnet requests service prior to the standard due date intervals.

Coordinated Conversion applies if Pathnet requests notification and coordination of service cut-over prior to the service becoming effective.

Hot Coordinated Conversion First Hour applies if Pathnet requests real-time coordination of a service cut-over that takes one hour or less.

Hot Coordinated Conversion Per Additional Quarter Hour applies, in addition to the Hot Coordinated Conversion First Hour, for every 15-minute segment of real-time coordination of a service cut-over that takes more than one hour.

KENTUCKY UNBUNDLED VERTICAL FEATURES

VERTICAL FEATURES		(Subject to Availability)
Three Way Calling	\$/Feature/Month	\$1.32
Call Forwarding Variable	\$/Feature/Month	\$0.35
Cust. Changeable Speed Calling 1-Digit	\$/Feature/Month	\$0.21
Cust. Changeable Speed Calling 2-Digit	\$/Feature/Month	\$0.30
Call Waiting	\$/Feature/Month	\$0.12
Cancel Call Waiting	\$/Feature/Month	\$0.05
Automatic Callback	\$/Feature/Month	\$0.21
Automatic Recall	\$/Feature/Month	\$0.12
Calling Number Delivery	\$/Feature/Month	\$0.11
Calling Number Delivery Blocking	\$/Feature/Month	\$0.32
Distinctive Ringing / Call Waiting	\$/Feature/Month	\$0.44
Customer Originated Trace	\$/Feature/Month	\$0.12
Selective Call Rejection	\$/Feature/Month	\$0.56
Selective Call Forwarding	\$/Feature/Month	\$0.65
Selective Call Acceptance	\$/Feature/Month	\$0.78
Call Forwarding Variable CTX	\$/Feature/Month	\$0.31
Call Forwarding Incoming Only	\$/Feature/Month	\$0.29
Call Forwarding Within Group Only	\$/Feature/Month	\$0.16
Call Forwarding Busy Line	\$/Feature/Month	\$0.16
Call Forwarding Don't Answer All Calls	\$/Feature/Month	\$0.19
Remote Call Forward	\$/Feature/Month	\$2.43
Call Waiting Originating	\$/Feature/Month	\$0.08
Call Waiting Terminating	\$/Feature/Month	\$0.12
Cancel Call Waiting CTX	\$/Feature/Month	\$0.02
Three Way Calling CTX	\$/Feature/Month	\$0.53
Call Transfer Individual All Calls	\$/Feature/Month	\$0.20
Add-on Consultation Hold Incoming Only	\$/Feature/Month	\$0.18
Speed Calling Individual 1-Digit	\$/Feature/Month	\$0.08
Speed Calling Individual 2-Digit	\$/Feature/Month	\$0.17
Direct Connect	\$/Feature/Month	\$0.08
Distinctive Alerting / Call Waiting Indicator	\$/Feature/Month	\$0.07
Call Hold	\$/Feature/Month	\$0.26
Semi-Restricted (Orig/Term)	\$/Feature/Month	\$1.52
Fully-Restricted (Orig/Term)	\$/Feature/Month	\$1.51
Toll Restricted Service	\$/Feature/Month	\$0.18
Call Pick-up	\$/Feature/Month	\$0.09
Directed Call Pick-up w/Barge-In	\$/Feature/Month	\$0.08
Directed Call Pick-up w/o Barge-In	\$/Feature/Month	\$0.10
Special Intercept Announcements	\$/Feature/Month	\$12.05
Conference Calling - 6-Way Station Cont.	\$/Feature/Month	\$23.63
Station Message Detail Recording	\$/Feature/Month	\$10.17
Station Message Detail Recording to Premises	\$/Feature/Month	\$30.76

Fixed Night Service - Key	\$/Feature/Month	\$4.00
Attendant Camp-on (Non-DI Console)	\$/Feature/Month	\$0.55
Attendant Busy Line Verification	\$/Feature/Month	\$17.36
Control of Facilities	\$/Feature/Month	\$0.05
Fixed Night Service - Call Forwarding	\$/Feature/Month	\$2.00
Attendant Conference	\$/Feature/Month	\$62.35
Circular Hunting	\$/Feature/Month	\$1.72
Preferential Multiline Hunting	\$/Feature/Month	\$0.05
Uniform Call Distribution	\$/Feature/Month	\$5.65
Stop Hunt Key	\$/Feature/Month	\$5.74
Make Busy Key	\$/Feature/Month	\$5.75
Queuing	\$/Feature/Month	\$10.62
Automatic Route Selection	\$/Feature/Month	\$3.07
Facility Restriction Level	\$/Feature/Month	\$0.23
Expansive Route Warning Tone	\$/Feature/Month	\$0.04
Time-of-Day Routing Control	\$/Feature/Month	\$8.63
Foreign Exchange Facilities	\$/Feature/Month	\$8.99
Anonymous Call Rejection	\$/Feature/Month	\$4.72
Basic Business Group Sta-Sta ICM	\$/Feature/Month	\$0.52
Basic Business Group CTX	\$/Feature/Month	\$0.10
Basic Business Group DOD	\$/Feature/Month	\$0.05
Basic Business Auto ID Outward Dialing	\$/Feature/Month	\$0.00
Basic Business Group DID	\$/Feature/Month	\$0.00
Business Set Group Intercom All Calls	\$/Feature/Month	\$5.13
Dial Call Waiting	\$/Feature/Month	\$0.15
Loudspeaker Paging	\$/Feature/Month	\$8.76
Recorded Telephone Dictation	\$/Feature/Month	\$10.54
On-Hook Queuing for Outgoing Trunks	\$/Feature/Month	\$0.42
Off-Hook Queuing for Outgoing Trunks	\$/Feature/Month	\$0.03
Teen Service	\$/Feature/Month	\$0.06
Bg - Automatic Call Back	\$/Feature/Month	\$0.12
Voice/Data Protection	\$/Feature/Month	\$0.01
Authorization Codes for Afr	\$/Feature/Month	\$0.10
Account Codes for Afr	\$/Feature/Month	\$0.27
Code Restriction Diversion	\$/Feature/Month	\$0.26
Code Calling	\$/Feature/Month	\$11.12
Meet-Me Conference	\$/Feature/Month	\$9.38
Call Park	\$/Feature/Month	\$0.12
Executive Busy Override	\$/Feature/Month	\$0.08
Last Number Redial	\$/Feature/Month	\$0.09
Direct Inward System Access	\$/Feature/Month	\$0.13
Authorization Code Immediate Dialing	\$/Feature/Month	\$0.00
Bg - Speed Calling Shared	\$/Feature/Month	\$0.01
Attendant Recall from Satellite	\$/Feature/Month	\$3.47
Bg - Speed Calling 2-Shared	\$/Feature/Month	\$0.01

Business Set - Call Pick-up	\$/Feature/Month	\$0.07
Authorization Code for Mdr	\$/Feature/Month	\$0.00
Locked Loop Operation	\$/Feature/Month	\$0.00
Attendant Position Busy	\$/Feature/Month	\$2.60
Two-Way Splitting	\$/Feature/Month	\$5.04
Call Forwarding - All (Fixed)	\$/Feature/Month	\$0.41
Business Group Call Waiting	\$/Feature/Month	\$0.00
Music on Hold	\$/Feature/Month	\$1.42
Automatic Alternate Routing	\$/Feature/Month	\$0.35
DTMF Dialing	\$/Feature/Month	\$0.06
BG DTMF Dialing	\$/Feature/Month	\$0.05
Business Set Access to Paging	\$/Feature/Month	\$2.54
Call Flip-Flop (Ctx-A)	\$/Feature/Month	\$0.44
Selective Calling Waiting (Class)	\$/Feature/Month	\$0.32
Direct Inward Dialing	\$/Feature/Month	\$7.97
Customer Dialed Account Recording	\$/Feature/Month	\$1.24
Deluxe Automatic Route Selection	\$/Feature/Month	\$23.44
MDC Attendant Console	\$/Feature/Month	\$34.04
Warm Line	\$/Feature/Month	\$0.01
Calling Name Delivery	\$/Feature/Month	\$0.30
Call Forwarding Enhancements	\$/Feature/Month	\$0.00
Caller ID Name and Number	\$/Feature/Month	\$1.03
InContact	\$/Feature/Month	\$1.68
Call Waiting ID	\$/Feature/Month	\$0.08
Att'd ID on Incoming Calls	\$/Feature/Month	\$4.02
Privacy Release	\$/Feature/Month	\$0.40
Display Calling Number	\$/Feature/Month	\$0.20
Six-Port Conference	\$/Feature/Month	\$41.54
Business Set Call Back Queuing	\$/Feature/Month	\$0.01
ISDN Code Calling - Answer	\$/Feature/Month	\$0.23
Att'd Call Park	\$/Feature/Month	\$2.09
Att'd Autodial	\$/Feature/Month	\$0.99
Att'd Speed Calling	\$/Feature/Month	\$1.69
Att'd Console Test	\$/Feature/Month	\$0.11
Att'd Delayed Operation	\$/Feature/Month	\$0.00
Att'd Lockout	\$/Feature/Month	\$0.00
Att'd Multiple Listed Directory Numbers	\$/Feature/Month	\$0.00
Att'd Secrecy	\$/Feature/Month	\$0.82
Att'd Wildcard Key	\$/Feature/Month	\$0.34
Att'd Flexible Console Alerting	\$/Feature/Month	\$0.00
Att'd VFG Trunk Group Busy on Att'd Console	\$/Feature/Month	\$0.17
Att'd Console Act/Deact of CFU/CFT	\$/Feature/Month	\$1.55
Att'd Display of Queued Calls	\$/Feature/Month	\$0.03
Att'd Interposition Transfer	\$/Feature/Month	\$0.22
Att'd Automatic Recall	\$/Feature/Month	\$0.70

APPENDIX E
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APPENDIX F

COMPENSATION FOR EXCHANGE OF TRAFFIC USING UNBUNDLED ELEMENTS

1. This Appendix describes the compensation terms that apply for exchanging local, intraLATA, toll and interexchange traffic when Pathnet uses GTE-provided unbundled ports, local switching and shared transport to provide service to Pathnet's end-users. Reciprocal compensation does not apply in a resale environment.
2. Compensation for PATHNET's Purchase of GTE's unbundled local switching.
 - 2.1 For local intra-switch calls between lines connected to GTE's switch where PATHNET has purchased GTE's unbundled local switching, the Parties agree to impose no call termination charges on each other. GTE's local switching charge will apply as described below where the call is:
 - 2.1.1 Originated by PATHNET's customer using GTE's unbundled local switching and completed to a GTE customer:
 - (a) (For use of the local switch): local switching charge the originating office will apply to PATHNET.
 - 2.1.2 Originated by PATHNET's customer using GTE's unbundled local switching and completed to the customer of a third party LEC (not affiliated with PATHNET) using GTE's unbundled local switching.
 - (b) (For use of the local switch): local switching charge at the originating office will apply to PATHNET.
 - 2.1.3 Originated by PATHNET's customer using GTE's unbundled local switching and completed to another PATHNET's customer using GTE's unbundled local switching.
 - (c) (For use of the local switch): local switching charge at the originating office will apply to PATHNET.
 - 2.1.4 Originated by a GTE customer and terminated to PATHNET's customer using GTE's unbundled local switching.
 - (d) No local switching charge will apply to PATHNET.
 - 2.1.5 Originated by the customer of a third-party LEC (not affiliated with PATHNET) using GTE's unbundled local switching and terminated to PATHNET's customers using GTE's unbundled local switching.
 - (e) No local switching charge will apply to PATHNET.
 - 2.2 For local inter-switch calls where PATHNET has purchased GTE's unbundled local switching. GTE's charges will apply to CLEC as described below where the call is:
 - 2.2.1 Originated from PATHNET's end-user customer using GTE's unbundled local switching and completed to a GTE customer:

- (f) (For use of the local switch): local switching charge at the originating office.
 - (i) A mileage-based transport charge will apply when PATHNET uses GTE's transport.
 - (j) Tandem Switching, if applicable.
 - (k) (For call termination): Charges for local interconnection/call termination, when applicable
- 2.2.4 Originated from PATHNET's customer using GTE's unbundled local switching and completed to a third-party LEC (not affiliated with PATHNET) customer using GTE's unbundled local switching.
- (g) (For use of the local switch): local switching charge at the originating office.
 - (a) A mileage-based transport charge will apply when PATHNET uses GTE's transport.
 - (b) Tandem Switching, if applicable.
- 2.2.5 Originated from PATHNET's customer using GTE's unbundled local switching and completed to the interconnected network of a third-party LEC (not affiliated with PATHNET).
- (h) (For use of the local switch): local switching charge at the originating office.
 - (a) A mileage-based transport charge will apply when PATHNET uses GTE's transport, and mileage shall be measured between the originating office and the IP of the Third Party's network.
 - (b) Tandem Switching, if applicable.
- 2.2.6 Originated from PATHNET's customer using GTE's unbundled local switching and completed to PATHNET's customer using GTE's unbundled local switching.
- (i) (For use of the local switch): local switching charge at the originating office.
 - (a) A mileage-based transport charge will apply when PATHNET uses GTE's transport.
 - (b) Tandem Switching, if applicable.
 - (c) (For use of the local switch): Local switching charge at the terminating office.
- 2.2.7 Originated by a GTE customer and terminated to PATHNET's customer using GTE's unbundled local switching.
- (j) (For use at local switch): local switching charge at the terminating office.

- (a) (For call termination): PATHNET shall charge GTE for local interconnection/call termination, when applicable.
- 2.2.8 Originated by a customer of a third-party LEC using GTE's unbundled local switching and terminated to PATHNET's customer using GTE's unbundled local switching.
 - (k) (For use of the local switch): local switching charge at the terminating office.
- 2.2.9 Originated by a customer of the interconnected network of a third-party LEC and terminated to PATHNET's customers using GTE's unbundled local switching.
 - (l) (For use of the local switch): local switching charge at the terminating office.
- 2.3 For intraLATA toll calls where PATHNET has purchased GTE's unbundled local switching, charges shall apply as follows:
 - 2.3.1 Originated by PATHNET's customer and completed to a GTE customer:
 - (m) (For use of the local switch): local switching charge at the originating office.
 - (a) Shared transport charge between the two offices will apply when PATHNET uses GTE's transport.
 - (b) Tandem Switching, if applicable.
 - (c) (For call termination): End Office Switching charge at the terminating office (Switched Access Rate).
 - 2.3.2 Originated by PATHNET's customer and completed to the customer of a third-party LEC using GTE's unbundled local switching in a distant end office.
 - (n) (For use of the local switch): local switching charge at the originating office.
 - (d) Shared transport charge between the two offices will apply when PATHNET uses GTE's transport.
 - (e) Tandem Switching, if applicable.
 - 2.3.3 Originated by PATHNET's customer and completed to the network of a third-party LEC interconnected with GTE's network.
 - (o) (For use of the local switch): local switching charge at the originating office.
 - (f) Common transport charge will apply when PATHNET uses GTE's transport, and mileage shall be measured between the originating office and the IP of the Third Party's network.
 - (g) Tandem Switching, where applicable.

- 2.3.4 Originated by PATHNET's customer and completed by another of PATHNET's customers being served through GTE's unbundled local switching in a distant office.
- (p) (For use of the local switch): local switching charge at the originating office.
 - (h) Shared transport charge between the two offices will apply when PATHNET uses GTE's transport.
 - (i) Tandem Switching, if applicable.
 - (j) (For use of the local switch): local switching charge at the terminating office.
- 2.3.5 Originated by a GTE customer and terminated to PATHNET's customer using GTE's unbundled local switching.
- (q) (For use of the local switch): local switching charge at the terminating office.
 - (k) (For call termination): PATHNET will charge GTE local switching at the terminating office.
- 2.3.6 Originated by a customer of a third-party LEC (not affiliated with PATHNET) using GTE's unbundled local switching in a distant end office and terminated to PATHNET's customers using GTE's unbundled local switching.
- (r) (For use of the local switch): local switching charge at the terminating office.
- 2.3.7 Originated by a customer of the network of a third-party LEC interconnected with GTE's network and terminated to PATHNET's customers using GTE's unbundled local switching.
- (s) (For use of the local switch): local switching charge at the terminating office.
- 2.4 For intrastate Switched Access calls where PATHNET is using GTE's unbundled local switching for calls originated from or terminated to an IXC for completion:
- 2.4.1 For calls originated from PATHNET's customer to an IXC switch for completion.
- (t) (For use of the local switch): local switching charge at the office.
 - (l) Shared Transport;
 - (m) Tandem Switching
- 2.4.3 For calls terminating to PATHNET's end-user customer from an IXC switch for completion.
- (u) (For use of the local switch): local switching charge at the terminating office.

- (n) Shared Transport;
- (o) Tandem Switching

2.5 For interstate Switched Access calls where PATHNET is using GTE's unbundled local switching for calls originated from or terminated to an IXC for completion:

2.5.1 For calls originated from PATHNET's customer to an IXC switch for completion.

- (v) (For use of the local switch): local switching charge at the originating office.
- (p) Shared Transport;
- (q) Tandem Switching

2.5.2 For calls terminating to PATHNET's customer from an IXC switch for completion:

- (w) (For use of the local switch): local switching charge at the terminating office.
- (r) Shared Transport;
- (s) Tandem Switching

3. Unbundled local switching will be billed on a per minute of use basis and applied to all originating and interswitch terminating traffic, including, but not limited to local, toll, operator services, directory assistance, 911/E-911, 500, 700, 800/888, 900, 950, 976, busy calls, no answer, incomplete. Where non-conversation time cannot be measured, the parties will mutually agree on the appropriate measure and charge. Where measurement of terminating local switching minutes is not available, the number of minutes billed for terminating usage will be equal to the number of originating minutes. The Parties will mutually agree on a method and procedure to periodically sample and validate or adjust the ratio of originating to terminating minutes for billing purposes.

APPENDIX G

APPENDIX G
COLLOCATION RATES

CAGED COLLOCATION RATES			
Elements	Increment	NRC / MRC	Rate
<u>Non-Recurring Prices</u>			
Engineering Costs			
Engineering/Major Augment Fee	per occurrence	NRC	\$1,169.68
Minor Augment Fee	per occurrence	NRC	\$199.42
Access Card Administration (New/Replacement)	per card	NRC	\$22.88
Site Preparation Charge			
Initial 100 Square Feet	per sq ft	NRC	336.00
Incremental – Over 100 Square Feet	per sq ft	NRC	42.00
Cable Racking – Dedicated			
Engineering	per project	NRC	\$78.19
Installation and Materials - Racking	per linear foot	NRC	\$34.42
Cage Enclosure			
Cable Fencing	per sq. ft. fencing	NRC	\$8.09
Cage Gate	per gate	NRC	\$458.72
Cage Grounding Bar	per bar	NRC	\$1,420.59
DC Power Facility			
Termination	per pwr run	NRC	\$66.56
Power Cable Pull - Labor	per linear foot	NRC	\$11.09
Engineering	per project	NRC	\$78.19
Fiber Cable Pull			
Engineering Costs	per project	NRC	\$606.30
Place Innerduct	per linear foot	NRC	\$1.36
Pull Cable	per linear foot	NRC	\$0.93
Cable Fire Retardant	per occurrence	NRC	\$44.37
Fiber Cable Splice	per fiber	NRC	\$49.33
Facility Pull			
Engineering Costs	per project	NRC	\$33.82
Per Foot Pull (labor)-DS0,DS1,DS3 or Fiber	per linear foot	NRC	\$1.11
Per DSO Cable Termination (Connectorized)	per 100 pr	NRC	\$4.44
Per DS1 Cable Termination (Connectorized)	per 28 pr	NRC	\$1.11
Per DS3 (coaxial) Termination			
Per Termination (Preconnectorized)	per DS3	NRC	\$1.11
Per Termination (Unconnectorized)	per DS3	NRC	\$11.09
BITS Timing			
Engineering Costs	per project	NRC	\$34.93
Material Cost and Pull Shielded Cable	per linear foot	NRC	\$1.25

CAGED COLLOCATION RATES			
Elements	Increment	NRC / MRC	Rate

Monthly Recurring Prices

Cage Floor Space including Shared Access Area	1 sq ft	MRC	\$2.73
Cable Space (Subduct Space)			
Manhole	per project	MRC	\$4.89
Subduct	per linear foot	MRC	\$0.04
DC Power Facility and Utility			
Utility, Power Supply, Fuse Panels and Fuses	40 amps	MRC	\$612.87
Facility Termination			
DSO Cable – Material	per 100 pr.	MRC	\$3.13
DS1 Cable – Material	per 28 pr.	MRC	\$12.34
DS3 Cable – Material	per DS3	MRC	\$16.11
Cable Vault Splice			
Fiber Cable - 48 fiber			
Material	per splice	MRC	\$8.66
Space Utilization in Cable Vault	per subduct	MRC	\$0.82
Fiber Cable - 96 fiber			
Material	per splice	MRC	\$24.66
Space Utilization in Cable Vault	per subduct	MRC	\$0.82
Cable Rack – Common			
Metallic DSO Cable - Space Utilization	per linear foot	MRC	\$0.01
Metallic DS1 Cable - Space Utilization	per linear foot	MRC	\$0.01
Fiber Cable - Space Utilization	per innerduct ft.	MRC	\$0.01
BITS Timing	per port	MRC	\$9.06

CAGELESS COLLOCATION RATES			
Elements	Increment	NRC / MRC	Rate

Non-Recurring Prices

Engineering Costs

Engineering Fee	per occurrence	NRC	\$1,169.68
Augment/Change Current Svc Arrangements	per occurrence	NRC	\$199.42

Access Card Administration (New/Replacement)

per card	NRC	\$22.88
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Cageless Site Preparation Charge

per bay	NRC	4800.00
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Cable Racking – Dedicated

Engineering	per project	NRC	\$78.19
Installation and Materials – Racking	per linear foot	NRC	\$34.42

DC Power Facility

Termination	per pwr run	NRC	\$66.56
Power Cable Pull – Labor	per linear foot	NRC	\$11.09
Engineering	per project	NRC	\$78.19

Fiber Cable Pull

Engineering Costs	per project	NRC	\$606.30
Place Innerduct	per linear foot	NRC	\$1.36
Pull Cable	per linear foot	NRC	\$0.93
Cable Fire Retardant	per occurrence	NRC	\$44.37

Fiber Cable Splice

per fiber	NRC	\$49.33
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Facility Pull

Engineering Costs	per project	NRC	\$33.82
Per Foot Pull (labor)-DSO,DS1,DS3 or Fiber	per linear foot	NRC	\$1.11
Per DSO Cable Termination (Connectorized)	per 100 pr	NRC	\$4.44
Per DS1 Cable Termination (Connectorized)	per 28 pr	NRC	\$1.11
Per DS3 (coaxial) Termination			
Per Termination (Preconnectorized)	per DS3	NRC	\$1.11
Per Termination (Unconnectorized)	per DS3	NRC	\$11.09

BITS Timing

Engineering Costs	per project	NRC	\$34.93
Material Cost and Pull Shielded Cable	per linear foot	NRC	\$1.25

Monthly Recurring Prices

Relay Rack Floor Space including Shared Access Area

per linear foot	MRC	\$11.59
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Cabinet Floor Space including Shared Access Area

per linear foot	MRC	\$15.68
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Cable Space

Subduct Space

Manhole	per project	MRC	\$4.89
Subduct	per linear foot	MRC	\$0.04

DC Power Facility and Utility

Utility, Power Supply, Fuse Panels and Fuses	40 amps	MRC	\$612.87
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Facility Termination

DSO Cable – Material	per 100 pr.	MRC	\$3.13
DS1 Cable – Material	per 28 pr.	MRC	\$12.34
DS3 Cable – Material	per DS3	MRC	\$16.11

CAGELESS COLLOCATION RATES

Elements	Increment	NRC / MRC	Rate
Cable Vault Splice			
Fiber Cable - 48 fiber			
Material	per splice	MRC	\$8.66
Space Utilization in Cable Vault	per subduct	MRC	\$0.82
Fiber Cable - 96 fiber			
Material	per splice	MRC	\$24.66
Space Utilization in Cable Vault	per subduct	MRC	\$0.82
Cable Rack – Common			
Metallic DSO Cable – Space Utilization	per linear foot	MRC	\$0.01
Metallic DS1 Cable – Space Utilization	per linear foot	MRC	\$0.01
Fiber Cable - Space Utilization	per innerduct ft.	MRC	\$0.01
BITS Timing	per port	MRC	\$9.06

ADJACENT COLLOCATION RATES			
Elements	Increment	NRC / MRC	Rate
Non-Recurring Prices			
Engineering Fee	per occurrence	NRC	\$958.00
Fiber Cable Pull			
Engineering Costs	per project	NRC	\$606.30
Place Innerduct	per linear foot	NRC	\$1.36
Pull Cable	per linear foot	NRC	\$0.93
Cable Fire Retardant	per occurrence	NRC	\$44.37
Metallic Cable Pull			
Engineering Costs	per project	NRC	\$606.30
Pull Cable	per linear foot	NRC	\$1.05
Cable Fire Retardant	per occurrence	NRC	\$44.37
Cable Splice			
Metallic DSO, DS1 or Fiber			
Engineering Costs	per project	NRC	\$30.32
Splicing (greater than 200 pair)	per DSO/DS1 pair	NRC	\$1.38
Splicing (less than 200 pair)	per DSO/DS1 pair	NRC	\$1.38
Splicing Fiber Cable	per fiber	NRC	\$49.33
Facility Pull			
Engineering Costs	per project	NRC	\$33.82
Per Foot Pull (labor)-DSO,DS1,DS3 or Fiber	per linear foot	NRC	\$1.11
Per DSO Cable Termination			
Per Termination (C)	per 100 pr	NRC	\$4.44
Per Termination (UC)	per 100 pr	NRC	\$44.37
Per DS1 Cable Termination			
Per Termination (C)	per 28 pr	NRC	\$1.11
Per Termination (UC)	per 28 pr	NRC	\$33.28
Per DS3 (coaxial) Termination			
Per Termination (Preconnectorized)	per DS3	NRC	\$1.11
Per Termination (Unconnectorized)	per DS3	NRC	\$11.09
Per Fiber Cable Termination			
Per Termination	per fiber	NRC	\$49.33
BITS Timing			
Engineering Costs	per project	NRC	\$34.93
Material Cost and Pull Shielded Cable	per linear foot	NRC	\$1.25

ADJACENT COLLOCATION RATES			
Elements	Increment	NRC / MRC	Rate

Monthly Recurring Prices

Cable Space

Subduct Space

Manhole	per project	MRC	\$4.89
Subduct	per linear foot	MRC	\$0.04

Conduit Space - 4" Duct - Metallic Cable

Manhole	per project	MRC	\$8.84
Conduit	per linear foot	MRC	\$0.05

Facility Termination

DSO Cable - Material	per 100 pr.	MRC	\$3.13
DS1 Cable - Material	per 28 pr.	MRC	\$12.34
DS3 Cable - Material	per DS3	MRC	\$16.11

Cable Vault Splice

Metallic DSO Cable per 1200 pair

Material	per splice	MRC	\$449.44
Space Utilization in Cable Vault	per cable	MRC	\$3.00

Metallic DSO Cable per 900 pair

Material	per splice	MRC	\$329.12
Space Utilization in Cable Vault	per cable	MRC	\$2.75

Metallic DSO Cable per 600 pair

Material	per splice	MRC	\$218.79
Space Utilization in Cable Vault	per cable	MRC	\$1.94

Metallic DS1 Cable

Material	per splice	MRC	\$45.54
Space Utilization in Cable Vault	per cable	MRC	\$0.44

Fiber Cable - 48 fiber

Material	per splice	MRC	\$8.66
Space Utilization in Cable Vault	per subduct	MRC	\$0.82

Fiber Cable – 96 fiber

Material	per splice	MRC	\$24.66
Space Utilization in Cable Vault	per subduct	MRC	\$0.82

Cable Rack – Common

Metallic DSO Cable - Space Utilization	per linear foot	MRC	\$0.01
Metallic DS1 Cable - Space Utilization	per linear foot	MRC	\$0.01
Fiber Cable – Space Utilization	per innerduct ft.	MRC	\$0.01

BITS Timing

	per port	MRC	\$9.06
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MISCELLANEOUS COLLOCATION RATES			
Elements	Increment	NRC / MRC	Rate

Elements	Increment	NRC / MRC	Rate
Labor:			
Overtime Installation Labor	per rates below		
Overtime Repair Labor	per rates below		
Additional Installation Testing Labor	per rates below		
Standby Labor	per rates below		
Testing & Maintenance with Other Telcos, Labor	per rates below		
Other Labor	per rates below		
Labor Rates:			
Basic Time, Business Day, Per Technician			
First Half Hour or Fraction Thereof		NRC	\$42.76
Each Additional Half Hour or Fraction Thereof		NRC	\$21.38
Overtime, Outside the Business Day			
First Half Hour or Fraction Thereof		NRC	\$100.00
Each Additional Half Hour or Fraction Thereof		NRC	\$75.00
Prem.Time,Outside Business Day, Per Tech			
First Half Hour or Fraction Thereof		NRC	\$150.00
Each Additional Half Hour or Fraction Thereof		NRC	\$125.00
GTE Provided Cable Rates:			
Facility Cable			
DS-O Cable (Connectorized) 100 pair	100 ft.	NRC	\$157.69
DS-1 Cable (Connectorized)	100 ft.	NRC	\$165.77
DS-3 Coax Cable	per linear foot	NRC	\$0.42
Shielded Cable (Orange jacket)	per linear foot	NRC	\$0.16
Power Cable			
Wire Power 1/0	per linear foot	NRC	\$0.77
Wire Power 2/0	per linear foot	NRC	\$1.11
Wire Power 3/0	per linear foot	NRC	\$1.24
Wire Power 4/0	per linear foot	NRC	\$1.52
Wire Power 350 MCM	per linear foot	NRC	\$2.60
Wire Power 500 MCM	per linear foot	NRC	\$3.63
Wire Power 750 MCM	per linear foot	NRC	\$5.58
Wire Ground #6	per linear foot	NRC	\$0.15
Collocation Space Report	per premise	NRC	\$1,637.25