BLANKET CONTRACT

The City of Seattle
PURCHASING SERVICES
700 5TH AVE #4112
PO BOX 94687
SEATTLE WA 98124-4687

Blanket Contract #		Date	Change Order #
0000001289		6/30/09	5
Payment Terms	Freight Terms		
NET-30	Destination Prepaid & Allowed		
Buyer:		FAX:	Phone:
Pam Tokunaga		206-233-5155	206-233-7114

Vendor #: 0000123998
WESTERN TRAFFIC SYSTEM INC
909 SE Everett Mall Way #A120
Everett, WA 98208

Contact: Robert Nims
Title: President
Phone #: 425-438-1133
Fax #: 425-438-1585
Email:
rnims@westernsystemsnetworks.com

Ship To:

Location specified at time of order

Bill To:

SEE BELOW

Western Traffic System Inc was awarded a contract to purchase and install Traffic Controller Equipment into the Traffic Signal Cabinets as a result of a sole source negotiations conducted by the City. Product descriptions and pricing are indicated on Attachment #9.

CHANGE ORDER #1, WAS ISSUED TO APPEND AN ATTACHMENT TO THE CONTRACT, TITLED FTA REQUIREMENTS, AND IS INCORPORATED INTO THE CONTRACT BY THIS REFERENCE. THIS ATTACHMENT APPLIES TO PURCHASES MADE BY THE CITY IN CONJUNCTION WITH THE TERMS AND CONDITIONS ESTABLISHED BY THE SOUND TRANSIT/CITY OF SEATTLE CONSTRUCTION SERVICE AGGREEMENT, DATED OCTOBER 9, 2003. TERMS AND CONDITIONS INITIALLY ESTABLISHED BETWEEN THE CITY AND WESTERN TRAFFIC SYSTEMS, INC (NOT INVOLVING SOUND TRANSIT) REMAIN UNCHANGED.

CHANGE ORDER #2, WAS ISSUED TO REFLECT PRICING FOR TRAFFIC CONTROLLER EQUIPMENT AS SHOWN ON ATTACHMENT #8 (Attachments#1 through 8, in receipt.)

CHANGE ORDER #3, IS ISSUED TO EXTEND CONTRACT, REVISE BUYERS NAME AND REPLACE ATTACHMENTS 2 THROUGH 8 WITH ATTACHMENT 9.

CHANGE ORDER #4, issued to revise Attachment 9.

CHANGE ORDER #5, issued to extend contract through June 30, 2010.

ORIGINAL CONTRACT TERM: July 1, 2004 to June 30, 2007
CHANGE ORDER #3 and #4 CONTRACT TERM: July 1, 2007 through June 30, 2009
CHANGE ORDER #5 CONTRACT TERM: July 1, 2009 through June 30, 2010

Authorized Signature/Date

Pam Tokunaga 6/30/09

Orders shall be placed by City of Seattle Departments. Invoices shall be mailed in duplicate to the ordering departments Accounts Payable, per attached list. Each invoice shall reference Contract #0000001289.

The City does not guarantee utilization of this contract. This contract is subject to cancellation by either party upon thirty (30) days advanced written notice. The City may award contracts to other vendors for similar products or services. Actual utilization will be based on availability, proximity of vendor facilities, frequency of deliveries, or any other factor deemed important to the City.

Change order #5 is per telephone conversation on 6/29/09, R. Nims/P. Tokunaga.

In all other respects, this contract remains the same.

Authorized Signature/Date

Pam Tokunaga

Revision #1	Expanded Fiberoptic/Ethernet Products
Revision #2	Modify Contract to Opticom as a line item Adder to Cabinets
Revision #3	Added Type 05 ITS Cabinet Designs
Revision #4	Change Power Supplies to Type 2A, Add AC & DC Isolators to Contract, Add DC Isolators to Type 4 & 5 Cabinets
Revision #5	Change Quantity of DC Isolators to Type 4 & 5 Cabinets
Revision #6	Add new TransNET & 5800 Products to Wireless
Revision #7	Add more options for Gator Patch lengths
Revision #8	Change Ethernet Switches to Managed 6K16 units in place of prior mP62 units
Revision #9	Added Digi portservers and more options for Gator Patch lengths
Revision #10	Updated ITS-04 & ITS-05 cabinets to include heaters, heater panels and flash plugs
Revision #11	Reduced Pricing for GBIC modules in garretCom equipment
Revision #12	Changed Conflict Monitors and Loop Amplifiers to newer models
Revision #13	Added Actelis Networks to the contract
Revision #14	Revised Type 2S and Type 3 cabinet designs to include more detection slots and more detection terminals

Seattle Cabinet Contract 2007

SIEMENS ITS, WESTERN SYSTEMS

Revision #2: Modify to have Opticom Equipment as a line item adder
Revision #3: Added Type 5 Cabinet Designs
Revision #4: Change Power Supplies to 2A and include Ped Isolators on Type 4 & 5 Cabinets
Revision #5: Change Quantity Ped Isolators on Type 4 & 5 Cabinets
Revision #8: Change Ethernet switches from mP62 to 6K16 & 6KP6V-RJSSC
Revision #10: Added Heaters, Heater Panels and Flash Plugs to ITS-04 & ITS-05 Cabinets
Revision #12: Changed Monitor & Loop Amplifiers for all cabinet types
Revison #14: Changes Type 2S and Type 3 cabinets to include more detection capabilities and terminals

Supplier Part ID	Manufacturer Part	Item Description	Contract Price
		Wired Cabinets (Complete)	
CWTSEA-SM-02FIB	SEASM-FIBER-C	Seattle **Controller Cabinet Type 2S** (Stretched-M) Wired Facility for **Fiber Interconnect** includes: Wired Controller Cabinet CWTSEACABSM02FIB including: (1) EL708SE Cabinet, (1) Seattle SM Wired Cabinet Facilities, (1) **CWTDR1PS/10V2/1OP** Detector Rack, (0) CITGM2G06FNB-100 6 pair Gator Patch +100ft fiber lead-in, (2) CITVP2SPCPA-2 Single Mode Duplex Patch Coords (ST to SC), (1) CPDSSF863 Discrete Flasher, (4) CCDW21ACPXD5 Flash Transfer Relay Plug-In Cabinet Devices Including: (1) EPAC3408M52 Eagle M50 Controller w/SE-PAC software and Port 3 RS-232 Option board, (1) **CEDMMU16LEIP** 16 Channel Smart Monitor, (8) CPDSSS863 Discrete Loadswitch, (1) **CEDPS150** Power Supply 2A, (2) **CEDORACLE4E** 4 Channel Loop Amplifiers, **NO OPTICOM EQUIPMENT**, (1) CGA6K16V Managed Ethernet Switch Base Unit, (1) CGA6KP6V-RJSSC 4+2 Module w/(4) 10/110 RJ45 Ports & (2) 100MB 20K Single-Mode Fiber FX SC Ports	$ 15,740.87
CWT2OPTADD	3M752	ADDER FOR 3M OPTICOM 2CH 752 PHASE SELECTOR	$ 1,861.11
CWTSEA-SM-02COP	SEASM-COPPER-C	Seattle **Controller Cabinet Type 2S** (Stretched-M) Wired Facility for **Copper Interconnect** includes: Wired Controller Cabinet CWTSEACABSM02COP including: (1) EL708SE Cabinet, (1) Seattle SM Wired Cabinet Facilities, (1) **CWTDR1PS/10V2/1OP** Detector Rack, (1) CWTCBLEPAC2MDM Cable 4ft 25Pin EPAC to Di-Phase Modem, (1) CPDSSF863 Discrete Flasher (4) CCDW21ACPXD5 Flash Transfer Relay Plug-In Cabinet Devices Including: (1) EPAC3408M52 Eagle M50 Controller w/SE-PAC software and Port 3 RS-232 Option board, (1) **CEDMMU16LEIP** 16 Channel Smart Monitor, (8) CPDSSS863 Discrete Loadswitch, (1) **CEDPS150** Power Supply 2A, (2) **CEDORACLE4E** 4 Channel Loop Amplifiers, **NO OPTICOM EQUIPMENT**, (1) CBBME760AR2 Modem 19.2K Baud Di-Phase Twisted Pair 4-Wire	$ 14,027.56
CWT2OPTADD	3M752	ADDER FOR 3M OPTICOM 2CH 752 PHASE SELECTOR	$ 1,861.11
CWTSEA-P-03FIB	SEAP-FIBER-C	Seattle **Controller Cabinet Type 3** (P) Wired Facility for **Fiber Interconnect** includes: Wired Controller Cabinet CWTSEACABP03FIB including: (1) EL712SE Cabinet, (1) Seattle P Wired Cabinet Facilities, (1) **CWTDR1PS/14V2/1OP** Detector Rack, (0) CITGM2G06FNB-100 6 pair Gator Patch +100ft fiber lead-in, (2) CITVP2SPCPA-2 Single Mode Duplex Patch Coords (ST to SC), (1) CPDSSF863 Discrete Flasher, (4) CCDW21ACPXD5 Flash Transfer Relay Plug-In Cabinet Devices Including: (1) EPAC3408M52 Eagle M50 Controller w/SE-PAC software and Port 3 RS-232 Option board, (1) **CEDMMU16LEIP** 16 Channel Smart Monitor, (12) CPDSSS863 Discrete Loadswitch, (1) **CEDPS150** Power Supply 2A, (4) **CEDORACLE4E** 4 Channel Loop Amplifiers, **NO OPTICOM EQUIPMENT**, (1) CGA6K16V Managed Ethernet Switch Base Unit, (1) CGA6KP6V-RJSSC 4+2 Module w/(4) 10/110	$ 15,783.50

		RJ45 Ports & (2) 100MB 20K Single-Mode Fiber FX SC Ports		
CWT4OPTADD	3M754	ADDER FOR 3M OPTICOM 4CH 754 PHASE SELECTOR	$	2,911.11
CWTSEA-P-03COP	SEAP-COPPER-C	Seattle **Controller Cabinet Type 3** (P) Wired Facility for **Copper Interconnect** includes: Wired Controller Cabinet CWTSEACABP03COP including: (1) EL712SE Cabinet, (1) Seattle P Wired Cabinet Facilities, (1) **CWTDR1PS/14V2/1OP** Detector Rack, (1) CWTCBLEPAC2MDM Cable 4ft 25Pin EPAC to Di-Phase Modem, (1) CPDSSF863 Discrete Flasher (4) CCDW21ACPXD5 Flash Transfer Relay Plug-In Cabinet Devices Including: (1) EPAC3408M52 Eagle M50 Controller w/SE-PAC software and Port 3 RS-232 Option board, (1) **CEDMMU16LEIP** 16 Channel Smart Monitor, (12) CPDSSS863 Discrete Loadswitch, (1) **CEDPS150** Power Supply **2A**, (4) **CEDORACLE4E** 4 Channel Loop Amplifiers, **NO OPTICOM EQUIPMENT**, (1) CBBME760AR2 Modem 19.2K Baud Di-Phase Twisted Pair 4-Wire.	$	14,070.11
CWT4OPTADD	3M754	ADDER FOR 3M OPTICOM 4CH 754 PHASE SELECTOR	$	2,911.11
CWTSEA-ITS-04FIB	SEAITS-FIBER-C	Seattle **Controller Cabinet Type 4S** (342S) Wired Facility for **Fiber Interconnect** includes: Wired Controller Cabinet CWTSEACABITS04FIB including: (1) EL342SE Cabinet, (1) Seattle ITS Wired Cabinet Facilities, (2) Input Files, (1) PDA Assembly (3) SIU100 Serial Interface Units, (1) CMU212 Channel Monitor, (2) AMU214 Auxiliary Monitor (0) CITGM2G06FNB-100 6 pair Gator Patch +100ft fiber lead-in, (2) CITVP2SPCPA-2 Single Mode Duplex Patch Coords (ST to SC), (2) CPDSSF863 Discrete Flasher, (4) CCDW21ACPXD5 Flash Transfer Relay **(4) CSIABW11609P004 Flash Plugs, (1) CWTPNLH/T-ITS Heater Panal & (1) CGRSCB-100 Heater** Plug-In Cabinet Devices Including: (1) AAZ14068P019 Eagle 2070L Controller w/SE-PAC software and 1B Processcor with Ethernet, (12) CPDSSS863 Discrete Loadswitch, (6) **CEDORACLE4E** 4 Channel Loop Amplifiers, **(2) CED242 D.C. Isolators, NO OPTICOM EQUIPMENT OR DC ISOLATOR FOR LRT INPUTS** (1) CGA6K16V Managed Ethernet Switch Base Unit, (1) CGA6KP6V-RJSSC 4+2 Module w/(4) 10/110 RJ45 Ports & (2) 100MB 20K Single-Mode Fiber FX SC Ports	$	24,028.96
CWT4OPTADD	3M754	ADDER FOR 3M OPTICOM 4CH 754 PHASE SELECTOR	$	2,911.11
CWT4LRTADD	CPDDCI82242X4	ADDER FOR (4) MODEL 242 D.C. ISOLATORS for LRT TRAIN DETECTION INPUTS	$	122.68
CWTSEA-ITS-05FIB	SEAITS2-FIBER-C	Seattle **Controller Cabinet Type 5** (342) Wired Facility for **Fiber Interconnect** includes: Wired Controller Cabinet CWTSEACABITS05FIB including: (1) EL342 Cabinet, (1) Seattle ITS Wired Cabinet Facilities, (2) Input Files, (1) PDA Assembly (3) SIU100 Serial Interface Units, (1) CMU212 Channel Monitor, (2) AMU214 Auxiliary Monitor (1) CITGM2G06FNB-100 6 pair Gator Patch +100ft fiber lead-in, (2) CITVP2SPCPA-2 Single Mode Duplex Patch Coords (ST to SC), (2) CPDSSF863 Discrete Flasher, (4) CCDW21ACPXD5 Flash Transfer Relay Plug-In Cabinet Devices Including: (1) AAZ14068P019 Eagle 2070L Controller w/SE-PAC software and 1B Processcor with Ethernet, (8) CPDSSS863 Discrete Loadswitch, (4) **CEDORACLE4E** 4 Channel Loop Amplifiers, **(1) CED242 D.C. Isolator, NO OPTICOM EQUIPMENT OR DC ISOLATOR FOR LRT INPUTS** (1) CGA6K16V Managed Ethernet Switch Base Unit, (1) CGA6KP6V-RJSSC 4+2 Module w/(4) 10/110 RJ45 Ports & (2) 100MB 20K Single-Mode Fiber FX SC Ports	$	20,079.45
CWT5OPTADD	3M754	ADDER FOR 3M OPTICOM 4CH 754 PHASE SELECTOR	$	2,911.11
CWT5LRTADD	CPDDCI82242X4	ADDER FOR (4) MODEL 242 D.C. ISOLATORS for LRT TRAIN DETECTION INPUTS	$	122.68

Seattle Cabinet Contract 2007

SIEMENS ITS, EDI, PDC, MAGNACRAFT, BLACKBOX, 3M & ITERIS

Revision #4; Add AC & DC Isolators

Revision #12; Added Smart Monitors & Oracle series detectors

Supplier Part ID	Manufacturer Part	Item Description	Contract Price
		Controllers and other Plug-In electronics	
C3M752	752	Opticom Phase Selector 2 Channel with Encoding	$ 1,927.85
C3M754	754	Opticom Phase Selector 4 Channel with Encoding	$ 3,016.65
CBBME760AR2	ME760AR2	Modem 19.2K Baud Di-Phase Twisted Pair 4-Wire	$ 389.50
CBBME760C	ME760C	Modem 19.2K Baud Di-Phase Twisted Pair 4-Wire (Rack Mount Version)	$ 375.42
CCDW21ACPXD5	W21ACPXD-5	Flash Transfer Relay Heavy Duty	$ 22.75
CEDAMU214	AMU214	Auxiliary Monitor 6 Channel ITS/ATC	$ 250.50
CEDCMU212	CMU212	Cabinet Monitor 32 Channel ITS/ATC	$ 508.50
CEDKEY212	KEY212	Data Key Programmer Interface & Software for CMU212	$ 435.00
CEDLM624	LM-624	Loop Amplifier 4 channel Rack Mounted (TS2)	$ 208.75
CEDMMU16LE	MMU16LE	Smart Monitor 16 Channel MMU	$ 612.50
CEDMMU16LEIP	MMU16LE/IP	Smart Monitor 16 Channel MMU with ethernet	$ 737.50
CEDNSM12L	NSM12L	Conflict Monitor 12 Channel NEMA	$ 343.88
CEDNSM6L	NSM6L	Conflict Monitor 6 Channel NEMA	$ 268.13
CEDORACLE4E	ORACLE4e	Loop Amplifier 4 channel Rack Mounted (TS2) with LCD display & loop diagnostics	$ 265.35
CEDPS100	PS100	Power Supply Rack Mounted 1A	$ 129.55
CEDPS150	PS150	Power Supply Rack Mounted 2A (Video Detection)	$ 184.09
CEDSIU100	SIU100	Serial Interface Unit ITS/ATC	$ 255.00
CITCAMSYS1	1CAMSYSTEM	Video Detection System Complete 1 Processor & Camera	$ 4,600.00
CPDACI88252	ACI-88-252	A.C. Isolator (Model 252)	$ 37.50
CPDDCI82242	DCI-82-242	D.C. Isolator (Model 242)	$ 36.14
CPDSSF863	SSF-86-3	Flasher Discrete	$ 23.30
CPDSSS863	SSS-86-3	Load Switch Discrete	$ 22.98
CSIAAZ14068P026	AAZ14068P026	Controller 2070L ITS w/8x40 front panel display and 1B ethernet CPU (Replacement for P019)	$ 2,406.25
CSIEPAC3298M34	EPAC3298M34	Controller 16 Phase NEMA TS2 Type 2 w/Port 3 RS-232 adder and EPAC firmware 3.32seh	$ 2,383.75
CSIEPAC3408M52	EPAC3408M52	Controller 16 Phase NEMA ATC w/Port 3 RS-232 adder and SE-PAC software 3.32seh	$ 2,458.75
CSIMBU13995P155B	MBU13995P155B	Software Local Intersection NextPhase Version 1.55B	$ 790.83
CSIMBU14247P332SEG	MBU14247P332SEG	Software Local Intersection SE-PAC Version 3.32seg (Seattle)	$ 790.83
CSIMBU14913P100	MBU14913P100	Software Master Intersection SE-MARC Version 1.00	$ 1,300.00

Seattle Cabinet Contract 2007

GARRETTCOM, ACTELIS NETWORKS, DIGI & GATOR PATCH

Revision #1; Expanded GarrettCom Product Offering
Revision #7; Expanded Gator Patch Product Offering
Revision #9; Expanded Gator Patch, Added Digi
Revison #11; Price reduction on GBIC ports and new 2OTX dual transceiver port
Revision #13; Actelis Equipment

Supplier Part ID	Manufacturer Part	Item Description	Contract Price
		Actelis Ethernet Over Copper Devices	
CAC-48BDC-P&GH	504R20042	Power & ground harness -48VDC 20ft 18AWG flying leads	$ 30.80
CACCBL25-DSL	504R20252	25 pair cable DSL 24AWG UTP wired to 50-pin Telco connector	$ 82.67
CACCBL4-DSL	504R20110	Quad cable DSL 4XRJ45 to open end 10ft for terminating at TB	$ 50.70
CACCBL8-DSL	504R20120	Octal cable DSL 8XRJ45 to open end 10ft for terminating at TB	$ 76.00
CACCHS-100	506R20377	AC power feed module (AC-PMF)	$ 205.70
CACML622	501R00026	Copper/EAD switch 2 pairs, 4X10/100TX ports, 1X100M SFP port (ML622)	$ 1,502.30
CACML624	501R00046	Copper/EAD switch 4 pairs, 4X10/100TX ports, 1X100M SFP port (ML624)	$ 1,730.75
CACML628	501R00027	Copper/EAD switch 8 pairs, 4X10/100TX ports, 1X100M SFP port (ML628)	$ 2,764.65
CACML638	501R00067	Copper/EAD switch 8 pairs, 4X10/100TX ports, 1XG SFP port (ML638)	$ 3,387.00
CACML688	501R00047	Copper/EAD switch 4/4 pairs, 4X10/100TX ports, 1X100M SFP port (ML688) (Drop & Repeat)	$ 2,764.65
CACMLC100-1	502R20333	Type A chassis shelf (ML100E/130)	$ 840.00
CACMLC100-2	502R20333	Type A chassis shelf (ML110E/130)	$ 980.00
CACMLC1000	502R20331	Type B chassis 19" rack (ML1300)	$ 2,595.00
CACMLU16N	503R20043	Multiport line unit plug-in card w/16 modems (ML130/ML1300) series	$ 2,400.00
CACMLU32EF	503R20053	Multiport line unit plug-in card w/32 modems (ML130/ML1300) series	$ 3,771.50
CACNEW-UFP	506R04820	Newmar -48VDC unity GMT fuse panel	$ 178.00
CACNEW-RE	506R04815	Newmar -48VDC unity rectifier	$ 284.00
CACNEW-RES	502R04810	Newmar -48VDC unity rectifier shelf	$ 187.00
CACPWRADD	506R00005	Power adapter AC-DC (Power Cord)	$ 76.00
CACRCKMNTKIT1	510R21070	Rack mount kit (holds 2 ML50/600 or PFU-8) for 19" rack	$ 156.00
CACSDU-320	503R20098	Service dispatch unit 2X20/100BT ports (ML130/1300)	$ 4,600.00
CACSDU-320G	503R20078	Service dispatch unit 2X20/100BT ports and 2SFP ports (ML130/1300)	$ 4,700.00
CACSDU-340G	503R20068	Service dispatch unit 2X20/100BT ports, 2 2X20/1000BT ports and 2SFP ports (ML130/1300)	$ 6,485.00
CACSFP100	506R00032	SFP optics 100base-FX single mode 1310nm, 15km, LC	$ 292.00
		Magnum 6K25 (10/100/1000) Managed Fiber Switches	
CGA6K25	6K25	Magnum 6K25 Managed Fiber Switch, base unit. May be configured with a selection of 10/100/1000 SX fiber and copper port connector types, 25 total ports max. Wire speed filtering and forwarding across all ports, 802.3x flow control, 802.1p priority packet processing, self-learning 4K-node address table, large 240KB packet buffers for 10/100 and 120KB for 1000Mb. Plug-and-play switching, front-mounted LEDs, internal auto-ranging AC power supply, 19" rack-mounting brackets. For licensed management software packages, see below.	$ 893.00
		Magnum 6K25 (10/100/1000) Port Modules	
CGA6KP8-SLC	6KP8-SLC	SFF Fiber module for 6K25 Switches, w/ eight 100Mb 15km single-mode FX LC connectors	$ 2,820.00
CGA6KP6-RJSSC	6KP6-RJSSC	4+2 module for 6K25s, w/ four 10/100 RJ-45 and two 100Mb 20km sgl.m FX SC connectors	$ 1,222.00

CGAGBPM-DOTX	GBPM-DOTX	One D-slot Gigabit 6K module for 6K25 switches, uses one 6K slot and provides one Gb open transceiver port	$	423.00
CGAGBPM-COTX	GBPM-COTX	One A, B or C-slot Gigabit 6K module for 6K25 switches, uses one 6K slot and provides one Gb open transceiver port. (Same as GBPM-DOTX but includes A, B and C port front cover)	$	470.00
CGAGBIC-SXSC	GBIC-SXSC	GBIC Transceiver module for use in GBPM-XOTX, 1000BASE-SX port with mm SC fiber connector	$	141.00
CGAGBIC-LXSC10	GBIC-LXSC10	GBIC Transceiver module for use in GBPM-XOTX, 1000BASE-LX/LH port with 1310nm, SM SC connector 10Km	$	329.00
CGAGBIC-LXSC25	GBIC-LXSC25	GBIC Transceiver module for use in GBPM-XOTX, 1000BASE-LX/LH port with 1310nm, SM SC connector 25Km	$	846.00
CGAGBIC-ZXSC40	GBIC-ZXSC40	GBIC Transceiver module for use in GBPM-XOTX, 1000BASE-ZX port with 1550nm, SM SC connector 40Km	$	1,128.00
CGAGBIC-ZXSC70	GBIC-ZXSC70	GBIC Transceiver module for use in GBPM-XOTX, 1000BASE-ZX port with 1550nm, SM SC connector 70Km	$	1,504.00
CGAGBIC-TP	GBIC-TP	GBIC Transceiver module for use in GBPM-XOTX, 802.3ab 1000BASE-T port with RJ45 connector	$	564.00
CGA6KM-BLNK	6KM-BLNK	Blank cover for one 6K A,B,C module slot opening in a Magnum 6K25 or 6K25R chassis	$	18.80
		Magnum 6K16V (10/100/1000) Managed Fiber Switches		
CGA6K16	6K16V	Magnum 6K16V Managed Fiber Switch, base unit, for vertical mounting. May be configured with a variety of 10/100/1000 Mb fiber and copper port connector types via selection from a family of port modules. 16 ports max. AC power input at the top. Two metal brackets for vertical wall or panel mounting. Wire speed filtering and forwarding across all ports, 802.3x flow control, 802.1p priority packet processing, 4K node address table, 240KB packet buffers. For licensed network management software (MNS-6K and S-Ring), see their data sheets.	$	874.20
CGA6K16-24VDC	6K16V-24VDC	Same as 6K16 above except power input is 24VDC operation	$	1,203.20
		Magnum 6K16V (10/100/1000) Port Modules		
CGA6KP8V-45SLC	6KP8V-45SLC	4+4 module for 6K16V Switches, w/ four 10/100 RJ-45 and four 100Mb 15km sgl.m FX LC connectors	$	1,889.35
CGA6KP8V-SLC	6KP8V-SLC	SFF Fiber module for 6K16V Switches, w/ eight 100Mb 15km single-mode FX LC connectors	$	2,829.40
CGA6KP6V-RJSSC	6KP6V-RJSSC	4+2 module for 6K16V Switches, w/ four 10/100 RJ-45 and two 100Mb 20km sgl.m FX SC connectors	$	1,231.40
CGAGBPM-2OTX	GBPM-2OTX	One slot Gigabit 6K module for 6K16V switches, uses one 6K slot and provides (2) Gb open transceiver ports	$	893.00
		MNS, Magnum 6K25 Managed Network Switch Software and Options		
CGAMNS-6K license	MNS-6K license	MNS-6K, licensed software for use on Magnum 6K Switches, license costs included with each 6K25 unit. Release 2.4 Includes SNMP Switch Management with secure access control, RMON, CLI, Port Security; Port Mirroring; Port Settings Control; Link-Loss-Learn(TM), Telnet, TFTP, FTP support, Spanning Tree Protocol, multi-level QoS, Port- and tag-based VLANs, GVRP, IGMP Snooping, SNMPc GUI support; Event Log; SNTP client for time-of-day; BootP and DHCP client for IP configuring, and password security. Supplied and updated via Internet and GCI FTP Server.	NO CHARGE	
CGAS-Ring key	S-Ring key	S-Ring(TM) Redundancy Manager licensed software for redundant ring management in Industrial Ethernet LANs. Extends standard Spanning Tree Protocol (STP) to enable faster ring fault recovery and larger ring configurations. One S-Ring key is for licensed use on one 6K Switch. S-Ring supports multiple rings on one 6K Switch, with any standard Ethernet hubs or switches used to form the ring or rings.	$	376.00
CGACONSOLE CBL	CONSOLE CBL	Console attachment cable, serial "Null Modem" (aka X-modem) cable with DB-9 connectors.	$	33.57
		MNS, Network Manegemant System Software 3rd party		
CGANMS	NMS Castle Software	Network management software, PC / Window-based SNMPc' product from Castle	$	895.69
		P62F Series 8 Port Switches (Ethernet Outdoors)		

CGAP62F-AC-2SSC	P62F-AC-2SSC	P62F-AC Ethernet Switch with six 10/100 RJ-45 and two 100Mb FDX fiber single-mode 20 kilometer SC-type ports. Has 16KB address table and 1.0MB packet buffers. AC power input, 85-260vac 47-63Hz worldwide auto-ranging, via PSX-A Power Source Extended Temp (a separate unit). Steel case used as a heat sink, designed for use in environmentally challenged locations such as Ethernet outdoors.	$	1,504.00
		Managed P62F Series 8 Port Switches (Ethernet Outdoors)		
CGAmP62F-AC-2SSC	mP62F-AC-2SSC	mP62F-AC Managed Ethernet Switch with six 10/100 RJ-45 and two 100Mb FDX fiber single-mode 20 kilometer SC-type ports. Software includes SNMP, QoS, Telnet, Security, STP, Link-Loss-Learn and S-Ring support, VLAN, BootP / DHCP. Has 4K nodes address table and 256KB packet buffers. AC power input, 85-260vac 47-63Hz worldwide auto-ranging, via PSX-A Power Source Extended Temp (a separate unit). Steel case used as a heat sink, designed for use in environmentally challenged locations such as Ethernet outdoors.	$	1,786.00
		Magnum 10 Mb Fiber Media Converters, Regular & Hardened		
CGAFT14H-24VDC	FT14H-24VDC	Hardened Twisted Pr to 10Mb mm Fiber media converter rated -40 to 75`C, with terminal block for 24VDC (range 18V to 36V) power connection. DC jack for alt. use of ext. AC to 9VDC PS is also present.	$	258.50
		Fiberoptic Terminals & Patch Coords		
CITGM2G06FNB-25	GM2G06FNB-25	Gator Patch 6pair Single Mode with ST Connectors and 25ft single mode fiber	$	218.13
CITGM2G06FNB-50	GM2G06FNB-50	Gator Patch 6pair Single Mode with ST Connectors and 50ft single mode fiber	$	225.00
CITGM2G06FNB-75	GM2G06FNB-75	Gator Patch 6pair Single Mode with ST Connectors and 75ft single mode fiber	$	231.88
CITGM2G06FNB-100	GM2G06FNB-100	Gator Patch 6pair Single Mode with ST Connectors and 100ft single mode fiber	$	238.75
CITGM2G06FNB-150	GM2G06FNB-150	Gator Patch 6pair Single Mode with ST Connectors and 150ft single mode fiber	$	252.50
CITGM2G06FNB-200	GM2G06FNB-200	Gator Patch 6pair Single Mode with ST Connectors and 200ft single mode fiber	$	266.25
CITGM2G06FNB-500	GM2G06FNB-500	Gator Patch 6pair Single Mode with ST Connectors and 500ft single mode fiber	$	362.50
CITGM2J06FNB-25	GM2J06FNB-25	Gator Patch 6pair Single Mode with SC Duplex Connectors and 25ft single mode fiber	$	218.13
CITGM2J06FNB-50	GM2J06FNB-50	Gator Patch 6pair Single Mode with SC Duplex Connectors and 50ft single mode fiber	$	225.00
CITGM2J06FNB-75	GM2J06FNB-75	Gator Patch 6pair Single Mode with SC Duplex Connectors and 75ft single mode fiber	$	231.88
CITGM2J06FNB-100	GM2J06FNB-100	Gator Patch 6pair Single Mode with SC Duplex Connectors and 100ft single mode fiber	$	238.75
CITGP2G12FNB-25	GP2G126FNB-25	Gator Patch 12pair Single Mode with ST Connectors and 25ft single mode fiber	$	351.81
CITGP2G12FNB-50	GP2G126FNB-50	Gator Patch 12pair Single Mode with ST Connectors and 50ft single mode fiber	$	357.44
CITGP2G12FNB-75	GP2G126FNB-75	Gator Patch 12pair Single Mode with ST Connectors and 75ft single mode fiber	$	365.56
CITGP2G12FNB-100	GP2G126FNB-100	Gator Patch 12pair Single Mode with ST Connectors and 100ft single mode fiber	$	372.44
CITGP2G12FNB-200	GP2G126FNB-200	Gator Patch 12pair Single Mode with ST Connectors and 200ft single mode fiber	$	419.94
CITGP2J12FNB-25	GP2J126FNB-25	Gator Patch 12pair Single Mode with SC Duplex Connectors and 25ft single mode fiber	$	351.81
CITGP2J12FNB-50	GP2J126FNB-50	Gator Patch 12pair Single Mode with SC Duplex Connectors and 50ft single mode fiber	$	357.44
CITGP2J12FNB-75	GP2J126FNB-75	Gator Patch 12pair Single Mode with SC Duplex Connectors and 75ft single mode fiber	$	265.56
CITGP2J12FNB-100	GP2J126FNB-100	Gator Patch 12pair Single Mode with SC Duplex Connectors and 100ft single mode fiber	$	372.44
CITVP2CPCPA-2	VP2CPCPA-2	Patch Cord Duplex Single Mode 6ft (SC to SC)	$	30.85
CITVP2SPCPA-2	VP2SPCPA-2	Patch Cord Duplex Single Mode 6ft (ST to SC)	$	30.85
CITVP2SPSPA-2	VP2SPSPA-2	Patch Cord Duplex Single Mode 6ft (ST to ST)	$	30.85
		Portservers / Media Converters		
CDI70002038	70002038	Portserver Digi TS 1HCC MEI 1 Port (Conformal Coated/NEMA rated)	$	436.25
CDI70002039	70002039	Portserver Digi TS 2HCC MEI 2 Port (Conformal Coated/NEMA rated)	$	523.75
CDI70002040	70002040	Portserver Digi TS 4HCC MEI 4 Port (Conformal Coated/NEMA rated)	$	678.75

Seattle Cabinet Contract 2007

MICROWAVE DATA SYSTEMS

Revision #6; Add new TransNet & 5800 Products

Supplier Part ID	Manufacturer Part	Item Description	Contract Price
		Transceivers	
CMDINET900AP	iNET900 AP	Wireless Transceiver Access Point w/10Base T Ethernet ready & serial port	$ 2,238.96
CMDINET900DG	iNET900 DG	Wireless Transceiver Dual Gateway w/10Base T Ethernet ready & serial port	$ 2,238.96
CMDINET900EB	iNET900 EB	Wireless Transceiver Ethernet Bridge w/10Base T Ethernet ready & serial port	$ 1,352.71
CMDINET900SB	iNET900 SB	Wireless Transceiver Serial Bridge w/10Base T Ethernet ready & serial port	$ 1,352.71
CMDTNET805	TransNET 900	Wireless Transceiver Transnet 900	$ 985.14
CMD5800-050	5800	Wayside Channel Full Duplex (2) T1/E1 5.725-5.850 GHZ 50MB 37-60 VDC	$ 8,396.10
		Options & Accessories	
CMDINET-DIAG	iNET DIAG	Diagnostics for iNET series transceiver, installed at the time of purchase	$ 150.00
CMDINET-DIAGU	iNET DIAGU	Diagnostics for iNET series transceiver, installed in the field	$ 215.00
CMDINET-UP2DUALR	iNET-UPGRADE	Upgrade Key from Remote to Dual Remote	$ 950.00
CMDP20	P20	Redundant Transceiver Option (2) Power Supplies 115/230VAC W/(1) Hr Battery Backup	$ 2,189.01
CMDTET-DIAG	TNET DIAG	Diagnostics for TransNET series transceiver, installed at the time of purchase	$ 102.00
CMDTNET-DIAGU	TNET DIAGU	Diagnostics for TransNET series transceiver, installed in the field	$ 167.01
CMD01-3682A02	01-3682A02	AC Adapter Kit includes: P/S Switcher AC/DC 12V-20W, Adapter XCVR AC to DC(iNET, TransNet)	$ 121.00
CMD03-2953A01	03-2953A01	iNET Demo Kit	$ 265.00
CMD03-3938A01	03-2928A01	Software NETview Management + Manual	$ 125.00
CMD03-4022A02	03-4022A02	DIN Rail Mounting	$ 15.00
CMD05-2973A01	05-2973A01	Manual NETview Installations & Operations Guide	$ 45.00
CMD20-2822A02	20-2822A02	Filter, 902-927 MHz, BandPass, 26MHz	$ 242.00
CMD97-1677A159	97-1677A159	Cable Assembly FO57A-PTMNM 3ft Sureflex TNC Male to N Male	$ 82.95
CMD97-1677A160	97-1677A160	Cable Assembly FO57A-PTMNM 6ft Sureflex TNC Male to N Male	$ 88.40
CMD97-1677A161	97-1677A161	Adapter, TNC Male to N Female	$ 23.15
CMD97-1870A20	97-1870A20	Cable Assy, RJ45 CAT5 Straight	$ 20.40
CMD97-1870A21	97-1870A21	Cable Assy, RJ45 CAT5 Crossover	$ 21.75
CMD97-1971A03	97-1971A03	Cable EIA-232 Shielded Data 6ft 9pin Male to 9pin Female	$ 10.90
CMD97-305L06	97-305L06	Cable EIA-232 Shielded Data 6ft 25pin Male to 9pin Female	$ 63.25
CMD97-305L15	97-305L15	Cable EIA-232 Shielded Data 15ft 25pin Male to 9pin Female	$ 76.15