



# ITRC

A DIVISION OF THE  
DELAWARE COUNTY INTERMEDIATE UNIT

Harry J. Jamison, Ph.D.  
Executive Director

Thomas G. Kerr, Ed.D.  
Asst. Executive Director  
Instructional Services

Samuel Iannucci  
Manager  
ITRC

600 North Jackson Street • Media, PA 19063 • (610) 565-0351 • Fax (610) 565-5873

May 28, 1999

Federal Communications Commission  
1919 M St., N.W.  
Washington, D.C. 20554

RECEIVED

JUN 3 1999

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Attention: **Office of the Secretary**

Reference: "In the matter of Request for Review by the Delaware County  
AVTS District. The Decision of the Universal Service Administrator as per  
FCC Docket No. 97-21 and 96-45"

- I We the, Delaware County AVTS District are the Applicant regarding:
- Application Number 45130
  - Billed Entity Number 126130
  - Funding Request Number 104110

We are a consortium of 14 school districts that jointly requested funding under the first year of the E-rate funding.

We wish to appeal the decision of the Universal Service Administrative Co. (USAC) Administrator's Decision on the Appeal dated April 26, 1999.

- II We are trying to provide high speed Internet Access to 14 school districts via a Fiber ATM network. The original intent of our application was to provide the electronics necessary to do this. The anticipated electronics **DOES NOT PROVIDE ANY INTERNAL CONNECTIONS** in any of the buildings and/or school districts. This is for EXTERNAL Internet connections.

Attached please find Sketches 1 through 16 that illustrate what our intentions are, at no time are we providing internal connections for the school district.

No. of Copies rec'd 0  
List ABCDE

There have been several items that have distressed us in this process of submitting for E-Rate funding:

Film, Video and Disc Library • Technical Repair Services • Print Shop • Graphic Design • Consulting  
Satellite Teleconferencing • Computer Technology Center • Network Design and Installation

At no time was our application rejected during any of the submittal processes

We, on numerous occasions called the SLC and explained what our intentions were and THEY INSTRUCTED us on the best way to fill out the form.

We were encouraged to form a consortium, which after the fact has penalized 50% of our district on the available discount rates available to each district. We now know that each district would have been funded had we individually filed.

We originally filed an appeal regarding this application on February 1, 1999. We were never contacted regarding our appeal nor could we get any information regarding our status. On May 12, 1999 we received our Administrator's Decision on appeal. The reason stated was that we are providing Internal Network Connections, which as we stated is not our intent.

- III Our question on the appeal is, how can an Administrator rule on an application without contacting the applicant for clarification or explanation, even on our first appeal we noted that no internal connections would be provided for. We are questioning the decision that the funds requested are for Internet access and do not provide for internal connections. We feel that this application should be funded in it entirety.
- IV Should you still feel that we are somehow providing a type of internal network connection, then we are seeking relief from this denial reason, our primary purpose for this proposal is direct Internet connection.

Should you have any questions regarding this appeal/application please contact me directly. I await your response.

Sincerely,



Sam Iannucci  
Manager

Attachments: USAC appeal letter dated February 1, 1999  
USAC Administrator's Decision on Appeal dated April 26, 1999  
FCC Form 471 with backup  
Drawings showing equipment model and configuration



# ITRC

A DIVISION OF THE  
DELAWARE COUNTY INTERMEDIATE UNIT

James F. Shields, Ed.D.  
*Executive Director*

Thomas G. Kerr, Ed.D.  
*Asst. Executive Director  
Instructional Services*

Samuel Iannucci  
*Manager  
ITRC*

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600 North Jackson Street • Media, PA 19063 • (610) 565-4880 Ext. 270 • Fax (610) 565-5873

USAC  
Universal Service Administrative CO.  
Schools and Libraries Division  
Attention: Deb Kriete

RECEIVED February 1, 1999

JUN 3 1999

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Dear Mrs. Kriete

Please accept this letter as a formal request for an appeal of our denial of E-Rate funding. The funding that was being sought was for High Speed Internet access to our fifteen school districts in our county. The Districts have made a commitment of 2.5 million dollars to run eighty miles of single mode fiber to provide not only high speed internet but also voice and data to all of the school districts within our county.

The funding requested submitted was for the Electronics at each of the fifteen sites to provide this High Speed Internet, voice and data access. I am submitting **Appendix A** for your review that indeed our application was for High Speed Internet access and should be funded at the discount rate of 48%. There appears to be a clerical error on our form 471 where the entry was dropped one line from Internet Access to internal connections.

Form 471 Application Number 45130  
Funding Year 1998  
Billed Entity Number 126130  
Funding request Number 00104110  
Spin Number 143004615

Sincerely

Samuel Iannucci  
Manager ITRC  
Delaware County Intermediate Unit

Cc:File  
Mailed certified

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Film, Video and Disc Library • Technical Repair Services • Print Shop • Graphic Design • Consulting  
Satellite Teleconferencing • Computer Technology Center • Network Design and Installation



April 7, 1998

Appendix A

Samuel Iannucci  
Manager - Instructional Technology Resource Center  
Delaware County Intermediate Unit  
600 North Jackson Street  
Media, PA 19063

Sam,

Below please find the "Summary" costs for the 3Com network we discussed. The goal of the network is to interconnect each school district to the Intermediate Unit. This interconnection will allow for sharing of network resources, including high speed internet connection, throughout the county.

**SUMMARY INFORMATION**

detailed information is contained on page 2.

		Yearly		
	Product	Maintenance	Install	
(15) District Entry Point	\$ 665,946.00	\$ 161,100.00	\$ 53,700.00	
Core Network ( IU )	\$ 356,593.00	\$ 126,533.00	\$ 28,757.50	
	\$ 1,022,539.00	\$ 287,633.00	\$ 82,457.50	

3Com understands that this project is contingent upon "ERATE" funding.

Please feel free to contact me if you have any additional questions or concerns

Sincerely

Donald W. Dengel



UNIVERSAL SERVICE  
ADMINISTRATIVE CO.

SCHOOLS AND LIBRARIES DIVISION

Box 125 - Correspondence Unit  
100 South Jefferson Road  
Whippany, New Jersey 07981

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### Administrator's Decision on Appeal

April 26, 1999

Samuel Iannucci  
Delaware County AVTS District  
600 North Jackson Street  
Media, PA 19063

Re: Billed Entity Number: 126130  
Application Number: 45130  
Funding Request Number(s): 104110  
Your Correspondence Dated: February 1, 1999

After thorough review and investigation of your appeal, the Schools and Libraries Division (SLD) of the Universal Service Administrative Company has resolved your appeal which seeks approval of additional discounts for the first program year. This letter addresses our decision concerning each Funding Request Number that was included in your letter of appeal for the above referenced Application Number. If your letter of appeal addressed more than one Application Number, a separate letter will be issued to inform you of our decision on the appeal of each Application Number included in your appeal.

Funding Request Number: 104110  
Decision on Appeal: Denied in full.

The following explanation is provided to inform you of the reason for our decision on appeal of this Funding Request Number, for those appeals that are denied in full.

Denial Reason(s):

- Services the applicant is requesting to list as Internet access included Internal Connections (network electronics and the installation and maintenance of network electronics). These funding requests were categorized as Internal Connections so as to avoid the possibility of treating priority two services (Internal Connections) as priority one services (telecommunications, dedicated and Internet access). Since Internal Connections are funded only at the 70% level or above, these services could not be supported for this funding period.

If you feel further examination of your application is in order, you may file an appeal with the Federal Communications Commission, Office of the Secretary, 445 12<sup>th</sup> Street SW, Room TW-A325, Washington, DC 20554. Before preparing and submitting your appeal, please be sure to review the FCC rules concerning the filing of an appeal of an Administrator's Decision, which are posted to the

SLD Web Site at [www.sl.universalservice.org](http://www.sl.universalservice.org). You must file your appeal with the FCC no later than 30 days from the date of the issuance of this letter, in order for your appeal to be timely filed.

We thank you for your continued support, patience, and cooperation during the appeal process.

Schools and Libraries Division  
Universal Service Administrative Company

FCC Form

Approval by OMB  
3060-0806

471

# Schools and Libraries Universal Service Services Ordered and Certification Form

MAWS114

Estimated Average Burden Hours Per Response: 6 hours

This form asks schools and libraries to list the eligible telecommunications-related services they have ordered and estimate the annual charges for them so that the Schools and Libraries Corporation can set aside sufficient support to reimburse providers for services.

Please read instructions before completing. (To be completed by each Billed Entity)

**Block 1: Applicant Address and Identifications (School, library, or consortium desiring Universal Service funding.)**

1. Name of Applicant (Billed Entity) NOTS O.S.F. Delaware County, OH 2. Funding Year 1998

3a. NCES School Code (if individual school) or NCES Library Code (if individual library) 412 80200

3b. 471 Application Number: (Administrator will use for this) 45130 3c. Billed Entity Number 126130

4a. Type of Applicant (Check only one box.)  
 school  
 school district  
 library or library consortium under the LSTA  
 consortium of multiple entities

4b. If applicant is a consortium, check all other boxes that apply:  
 includes non-governmental entities ineligible for support  
 region of a state  statewide  multi-state  
 state educational agency  
 local educational agency  
 educational service agency

5. Applicant's Street Address, P.O. Box, or Route Number  
6TH & Olive Streets

City <u>Media</u>	State <u>PA</u>	Zip Code <u>19063</u>	Telephone Number <u>(610) 565-4880</u>	E-mail Address <u>sam@itrc.deiu.k12.pa.us</u>
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6. Contact Person's Name Samuel Iannucci

Street Address, P.O. Box, or Route Number (if different from Item 5)  
600 North Jackson Street

City <u>Media</u>	State <u>PA</u>	Zip Code <u>19063</u>
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Fill in all of the following (if available), and check the preferred mode of contact:  Telephone 565-2828  
 FAX (610) 565-5873  E-mail sam@itrc.deiu.k12.pa.us  Mail

**Block 2: Purpose of Request**

7. Purpose of Request: (Check all that apply, if any.)

a.  Discount on contract(s) signed prior to a request being posted on the Administrator's website.  
 Was an FCC Form 470 filed with regard to all the contract(s)?  Yes  No

b.  Discount on contract(s) signed after a request being posted on the Administrator's website.

c.  Minor modification or supplement to existing contract(s) for which a Form 471 was already filed.  
 471 Application Number \_\_\_\_\_

**Block 3: Characteristics of Applicant and Applicant's Service Order (derived from FCC Form 470 Blocks 2 & 3)**

8a. Number of students <u>69,805</u>	8b. Number of library patrons
---	-------------------------------

9. Number of buildings to be served <u>102</u>	10. Number of rooms to be served <u>3,060</u>
---	--

<u>22</u>	Existing Service	Total Services After Order
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CONTROL #033829  
 SLIP BATCH #  
 APR 16 1998

pa us

<b>11. Telecommunications Services</b>		
a. Number of phones that have or require service (See instructions concerning extension phones and fax machines.)		
b. Number of computers that have or require service		
c. Number of high bandwidth video conferencing links		
<b>12. Internal Connections</b>		
a. Number of buildings with at least some rooms connected		
b. Number of rooms connected		
c. Highest speed of connection	10mb	10/100s
<b>13. Internet Access</b>		
a. Number of dial up connections	40	40
b. Highest speed of such dial up connections	56K	56K
c. Number of direct connections	10	19
d. Highest speed of such direct connections	T-1	T-3/OC3

**Block 4: Determining Discount Percentage**

14. Fill in one line per school, library, or library consortium and calculate in the last line, an average discount rate for the billed entity. Attach additional pages if necessary. *Note:* If the applicant has already completed this chart for all of the same entities with data that is current, provide the "471 Application Number" (Item 3b), from that previous FCC Form 471 here:

(1) Name of Individual School or Library	(2) NCES or Comparable Code for School or Library (Obtain from Administrator)	(3) Urban or Rural	(4) <i>For Schools:</i> Number of Students <i>For Libraries:</i> NCES Code of a School in its District	(5) <i>For Schools:</i> Number of Students Eligible for National School Lunch Program	(6) Discount Calculated from Discount Matrix	(7) Check if School or Library will use "Shared Services" listed in Item 15.
SEE ATTACHED SHEETS						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
FOR SHARED SERVICES ORDERED BY BILLED ENTITY (attach worksheet of calculations)					48%	

SEE ATTACHED SHEETS APPENDIX D AND APPENDIX C

APPENDIX B

School District's Worksheet of Available Discounts

All Schools Are Urban

PEPPM Pricing As Well As State Contract

42-80200

Delaware County AFDC Eligible Students

District	# of Buildings	# of Rooms to be Served	# of Students	# AFDC Eligible	% AFDC Eligible	District E-Rate Discount Average %
Chester Upland	11		7298	5353	73.30	90.00
Chichester	6		3809	1081	31.03	50.00
Garnet Valley	4		2690	69	2.57	40.00
Haverford Township	7		5472	240	4.70	40.00
Interboro	5		3854	741	20.00	50.00
Marple Newtown	6		3550	118	3.16	40.00
Penn Delco	6		3324	248	8.13	40.00
Radnor Township	4		2919	131	4.27	40.00
Ridley	9		5566	1178	25.00	50.00
Rose Tree Media	6		4045	249	6.50	40.00
Southeast Delco	7		4031	1810	43.85	60.00
Springfield	4		3228	128	4.00	40.00
Upper Darby	11		11425	1241	9.77	40.00
Wallingford-Swarthmore	6		3421	189	5.42	40.00
William Penn	10		5173	2514	48.80	60.00
<b>Totals: 15 Districts</b>	<b>102</b>		<b>69,805</b>	<b>15,286</b>	<b>19.37</b>	<b>48.00</b>

ok  
Samuel J. Danneberg

Control # 003029

**APPENDIX C  
School District's worksheet  
Consortium comprising Multiple School Districts**

	A	B	C	D	E
1					
2	<b>DISTRICTS</b>	<b>Nces Number</b>	<b>Calculated Discount for each School District from District</b>		<b>Consortium Discount</b>
3			<b>Work Sheets Coloum J</b>		
4					<b>Sum Coloum (C)</b>
5					<b>Divided by</b>
6	Chester Upland School Dsitric	4205860	82%		<b>Total number of districts</b>
7	Chichester School District	4205910	48%		<b>in Coloum (A)</b>
8	Garnet Valley School District	4210590	40%		
9	Haverford Township School District	4211670	40%		
10	Interboro School District	4212170	47%		
11	Marple Newtown School District	4214760	40%		
12	Penn Delco School District	4218580	40%		
13	Radnor Township School District	4219920	40%		
14	Ridley School District	4220370	48%		
15	Rose Tree Media School District	4220550	40%		
16	Southeast Delco School District	4222400	63%		
17	Springfield School District	4222600	40%		
18	Upper Darby School District	4224320	41%		
19	Wallingford -Swarthmore School District	4224790	40%		
20	William Penn School District	4226390	65%		
21					
22	<b>Sum of Districts = 15</b>		<b>714%</b>		<b>48%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7	Coloum G	Sum of Coloum I
2				For Schools:	For Schools:	divided by Coloum D		Check if	X	divided by
3		Nces or		Number of	Number of	equals	Discount	School or	Coloum D	Sum of Coloum D
4		Comparable		Students	Students		Calculated	Library will		Equals
5		Code for School		For Libraries:	Eligible for	Percent	from	use "Shared		Discount Rate for
6		or Library	Urban	NCES Code of a	National School	of Students	Discount	Services"		Shared Services
7	Name of Individual	(Obtain from	or	School in its	Lunch Program	Eligible for	Matrix	listed in Item		For School District
8	School or Library	Administration	Rural	District		School Lunch		15		
9										
10	Chichester School District	4205910								
11	Boothwyn Elementary	01843	Urban	356	69	19%	40%	X	142.4	
12	Hilltop Elementary	05322	Urban	482	110	23%	50%	X	241	
13	Linwood Elementary	01847	Urban	251	109	43%	60%	X	150.6	
14	Marcus Hook Elementary	01893	Urban	352	172	49%	60%	X	211.2	
15	Chichester Middle School	09943	Urban	1253	406	32%	50%	X	626.5	
16	Chichester High School	01849	Urban	1115	215	19%	40%	X	446	
17										
18	<b>TOTALS</b>			<b>3809</b>					<b>1817.7</b>	<b>46%</b>

Block 4:  
14.

**APPENDIX D**  
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	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7	Coloum G	Sum of Coloum I
2				For Schools:	For Schools:	divided by Coloum D		Check if	X	divided by
3		Nces or		Number of	Number of	equals	Discount	School or	Coloum D	Sum of Coloum D
4		Comparable		Students	Students		Calculated	Library will		Equals
5		Code for School		For Libraries:	Eligible for	Percent	from	use "Shared		Discount Rate for
6		or Library	Urban	NCES Code of a	National School	of Students	Discount	Services"		Shared Services
7	Name of Individual	(Obtain from	or	School in its	Lunch Program	Eligible for	Matrix	listed in Item		For School District
8	School or Library	Administration	Rural	District		School Lunch		15		
9										
10	Garnet Valley School District	4210590								
11	Concord Elementary	06506	Urban	688	18	3%	40%	X	275.2	
12	Garnet Valley Elementary	no number	Urban	654	18	3%	40%	X	261.6	
13	Garnet Valley Middle School	10013	Urban	604	13	2%	40%	X	241.6	
14	Garnet Valley High School	01869	Urban	744	20	3%	40%	X	297.6	
15										
16	<b>TOTALS</b>			<b>2690</b>					<b>1076</b>	<b>40%</b>

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**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7	Coloum G	Sum of Colum I
2				For Schools:	For Schools:	divided by Colum D		Check If	X	divided by
3		Nces or		Number of	Number of	equals		School or	Coloum D	Sum of Colum D
4		Comparable		Students	Students		Discount	Library will		Equals
5		Code for School		For Libraries:	Eligible for	Percent	Calculated	use "Shared		Discount Rate for
6		or Library	Urban	NCES Code of a	National School	of Students	from	Services"		Shared Services
7	Name of Individual	(Obtain from	or	School in its	Lunch Program	Eligible for	Discount	listed in item		For School District
8	School or Library	Administration	Rural	District		School Lunch	Matrix	15		
9										
10	Radnor Township School District	4219920								
11	Ithan Elementary	06510	Urban	588	13	2%	40%	X	235.2	
12	Wayne Elementary	06512	Urban	552	23	4%	40%	X	220.8	
13	Radnor Middle School	06511	Urban	891	36	4%	40%	X	356.4	
14	Radnor High School	019121	Urban	888	59	7%	40%	X	355.2	
15										
16	<b>TOTALS</b>			<b>2919</b>					<b>1167.6</b>	<b>40%</b>

Block 4:  
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	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7	Coloum G	Sum of Colum I
2				For Schools:	For Schools:	divided by Colum D		Check If	X	divided by
3		Nces or		Number of	Number of	equals		School or	Coloum D	Sum of Colum D
4		Comparable		Students	Students		Discount	Library will		Equals
5		Code for School		For Libraries:	Eligible for	Percent	Calculated	use "Shared		Discount Rate for
6		or Library	Urban	NCES Code of a	National School	of Students	from	Services"		Shared Services
7	Name of Individual	(Obtain from	or	School in its	Lunch Program	Eligible for	Discount	listed in item		For School District
8	School or Library	Administration	Rural	District		School Lunch	Matrix	15		
9										
10	Springfield School District	4222600								
11	Sabold Elementary	06518	Urban	487	31	6%	40%	X	194.8	
12	Scenic Hills Elementary	06519	Urban	508	11	2%	40%	X	203.2	
13	ET Richardson Middle School	01949	Urban	1079	44	4%	40%	X	431.6	
14	Springfield High School	01950	Urban	1149	42	4%	40%	X	459.6	
15										
16	<b>TOTALS</b>			<b>3223</b>					<b>1289.2</b>	<b>40%</b>

Block 4:  
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Control # 003829

APPENDIX D

School and School District Discount Calculations worksheet

1	A	B	C	D	E	F	G	H	I	J
2	1	2	3	4	5	6	7	8	9	10
3		Nces or		For Schools:		Coloum E		Check if	Coloum G	Sum of Colum I
4		Comparable		Number of	For Schools:	divided by Colum D		School or	X	divided by
5		Code for School		Students	Number of	equals		Library will	Coloum D	Sum of Colum D
6		or Library	Urban	For Libraries:	Students	Percent	Discount	use "Shared		Equals
7	Name of Individual	(Obtain from	or	NCES Code of a	Eligible for	of Students	Calculated	Services"		Discount Rate for
8	School or Library	Administration	Rural	School in its	National School	Eligible for	from	listed in item		Shared Services
9				District	Lunch Program	School Lunch	Discount	15		For School District
10							Matrix			
10	Haverford Township School Dist	4211670								
11	Haverford High School	01879	Urban	1578	50	3%	40%	X	631.2	
12	Haverford Middle School	01878	Urban	1305	74	6%	40%	X	922	
13	Chatham Park Elementary	01871	Urban	637	17	3%	40%	X	254.8	
14	Coopertown Elementary	01877	Urban	445	30	7%	40%	X	178	
15	Lynnewood Elementary	01874	Urban	511	10	2%	40%	X	204.4	
16	Manoa Elementary	01875	Urban	601	35	6%	40%	X	240.4	
17	Oakmont Elementary	01876	Urban	395	24	6%	40%	X	158	
18										
19	<b>TOTALS</b>			<b>5472</b>					<b>2188.8</b>	<b>40%</b>

Block 4:  
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APPENDIX D

School and School District Discount Calculations worksheet

1	A	B	C	D	E	F	G	H	I	J
2	1	2	3	4	5	6	7	8	9	10
3		Nces or		For Schools:	For Schools:	Coloum E		Check if	Coloum G	Sum of Colum I
4		Comparable		Number of	Number of	divided by Colum D		School or	X	divided by
5		Code for School	Urban	Students	Students	equals	Discount	Library will	Coloum D	Sum of Colum D
6		or Library	or	For Libraries:	Eligible for	Percent	Calculated	use "Shared		Equals
7	Name of Individual	(Obtain from	Rural	NCES Code of a	National School	of Students	from	Services"		Discount Rate for
8	School or Library	Administration		School in its	Lunch Program	Eligible for	Discount	listed in item		Shared Services
9				District		School Lunch	Matrix	15		For School District
10										
10	Southeast Delco School District	4222400								
11	Academy Park High School	06516	Urban	1094	371	34%	50%	X	547	
12	Ashland Middle School	01863	Urban	601	290	48%	60%	X	360.6	
13	Darby Twp. Elementary	01861	Urban	439	225	51%	80%	X	351.2	
14	Delcroft Elementary	06565	Urban	658	323	49%	50%	X	394.8	
15	Harris Elementary	06510	Urban	707	392	55%	80%	X	565.6	
16	Sharon Hill Elementary	01943	Urban	494	198	40%	60%	X	296.4	
17	Southeast Academy	no number	Urban	38	11	29%	50%	X	19	
18										
19	<b>TOTALS</b>			<b>4031</b>					<b>2534.6</b>	<b>62%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7		
2				For Schools:	For Schools:	divided by Colum D		Check If	Coloum G	Sum of Colum I
3		Nces or		Number of	Number of	equals		School or	X	divided by
4		Comparable		Students	Students		Discount	Library will	Coloum D	Sum of Colum D
5		Code for School		For Libraries:	Eligible for	Percent	Calculated	use "Shared		Equals
6		or Library	Urban	NCES Code of a	National School	of Students	from	Services"		Discount Rate for
7	Name of Individual	(Obtain from	or	School In its	Lunch Program	Eligible for	Discount	listed in item		Shared Services
8	School or Library	Administration	Rural	District		School Lunch	Matrix	15		For School District
9										
10	Marple Newtown School District	4214760								
11	Culbertson Elementary	01898	Urban	422	8	2%	40%	X	168.8	
12	Loomis Elementary	01899	Urban	367	9	2%	40%	X	146.8	
13	Russell Elementary	01894	Urban	390	19	5%	40%	X	156	
14	Worrall Elementary	01896	Urban	354	6	2%	40%	X	141.6	
15	Paxon Hollow Middle School	01901	Urban	834	34	4%	40%	X	333.6	
16	Marple Newtown High School	01902	Urban	1183	40	3%	40%	X	473.2	
17										
18										
19	<b>TOTALS</b>			<b>3550</b>					<b>1420</b>	<b>40%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1:	1	2	3	4	5	Coloum E	6	7		
2				For Schools:	For Schools:	divided by colum D		Check If	Coloum G	Sum of Colum I
3		Nces or		Number of	Number of	equals		School or	X	divided by
4		Comparable		Students	Students		Discount	Library will	Coloum D	Sum of Colum D
5		Code for School		For Libraries:	Eligible for	Percent	Calculated	use "Shared		Equals
6		or Library	Urban	NCES Code of a	National School	of Students	from	Services"		Discount Rate for
7	Name of Individual	(Obtain from	or	School In its	Lunch Program	Eligible for	Discount	listed in Item		Shared Services
8	School or Library	Administration	Rural	District		School Lunch	Matrix	15		For School District
9										
10	Penn-Delco School District	4218580								
11	Parkside Elementary	01912	Urban	220	20	9%	40%	X	88	
12	Coeboorn Elementary	01910	Urban	328	33	10%	40%	X	131.2	
13	Pennell Elementary	05223	Urban	512	28	5%	40%	X	204.8	
14	Aston Elementary	no number	Urban	459	50	11%	40%	X	183.6	
15	Northley Middle School	05143	Urban	743	67	9%	40%	X	297.2	
16	Sun Valley High School	01915	Urban	1062	48	5%	40%	X	424.8	
17										
18										
19	<b>TOTALS</b>			<b>3324</b>					<b>1329.6</b>	<b>40%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7		
2				For Schools:	For Schools:	divided by Coloum D		Check If	Coloum G	Sum of Coloum I
3		Nces or		Number of	Number of	equals		School or	X	divided by
4		Comparable		Students	Students		Discount	Library will	Coloum D	Sum of Coloum D
5		Code for School		For Libraries:	Eligible for	Percent	Calculated	use "Shared		Equals
6		or Library	Urban	NCES Code of a	National School	of Students	from	Services"		Discount Rate for
7	Name of Individual	(Obtain from	or	School in its	Lunch Program	Eligible for	Discount	listed in item		Shared Services
8	School or Library	Administration	Rural	District		School Lunch	Matrix	15		For School District
9										
10	Rose Tree Media School District	4220550								
11	Media Elementary	06514	Urban	496	52	10%	40%	X	198.4	
12	Rose Tree Elementary	01937	Urban	362	25	7%	40%	X	144.8	
13	Glenwood Elementary	01940	Urban	448	20	4%	40%	X	179.2	
14	Indian Lane Elementary	00049	Urban	518	13	3%	40%	X	207.2	
15	Springton Lake Middle School	06625	Urban	996	79	8%	40%	X	398.4	
16	Penncrest High School	01942	Urban	1225	60	5%	40%	X	490	
17										
18										
19	<b>TOTALS</b>			<b>4045</b>					<b>1618</b>	<b>40%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7		
2				For Schools:	For Schools:	divided by Coloum D		Check if	Coloum G	Sum of Coloum J
3		Nces or		Number of	Number of	equals		School or	X	divided by
4		Comparable		Students	Students		Discount	Library will	Coloum D	Sum of Coloum D
5		Code for School		For Libraries:	Eligible for	Percent	Calculated	use "Shared		Equals
6		or Library	Urban	NCES Code of a	National School	of Students	from	Services"		Discount Rate for
7	Name of Individual	(Obtain from	or	School in its	Lunch Program	Eligible for	Discount	listed in item		Shared Services
8	School or Library	Administration	Rural	District		School Lunch	Matrix	15		For School District
9										
10	William Penn School District	4226390								
11	Walnut Street Elementary	01857	Urban	684	546	80%	90%	X	615.6	
12	Park Lane Elementary	07249	Urban	387	258	67%	80%	X	309.6	
13	Bell Avenue Elementary	00104	Urban	373	230	62%	80%	X	298.4	
14	Evans Elementary	01974	Urban	396	169	43%	60%	X	237.6	
15	Aldan Elementary	06509	Urban	365	135	37%	60%	X	219	
16	Ardmore Avenue Elementary	01887	Urban	531	179	34%	50%	X	265.5	
17	East Lansdowne Elementary	01890	Urban	385	106	28%	50%	X	192.5	
18	Penn Wood West Middle School	01859	Urban	523	384	73%	80%	X	418.4	
19	Penn Wood East Middle School	01975	Urban	618	216	35%	60%	X	370.8	
20	Penn Wood High School	01892	Urban	911	291	32%	50%	X	455.5	
21										
22	<b>TOTALS</b>			<b>5173</b>					<b>3382.9</b>	<b>65%</b>

Block 4:

APPENDIX D

14.

School and School District Discount Calculations worksheet

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7		
2				For Schools:	For Schools:	divided by Colum D		Check if	Coloum G	Sum of Colum I
3		Nces or		Number of	Number of	equals		School or	X	divided by
4		Comparable		Students	Students		Discount	Library will	Coloum D	Sum of Colum D
5		Code for School		For Libraries:	Students	Percent	Calculated	use "Shared		Equals
6		or Library	Urban	NCES Code of a	Eligible for	of Students	from	Services"		Discount Rate for
7	Name of Individual	(Obtain from	or	School in its	National School	Eligible for	Discount	listed in item		Shared Services
8	School or Library	Administration	Rural	District	Lunch Program	School Lunch	Matrix	15		For School District
9										
10	Interboro School District	4212170								
11	Tinicum Elementary	04847	Urban	483	117	24%	50%	X	241.5	
12	Glenolden Elementary	01881	Urban	715	144	20%	50%	X	357.5	
13	Norwood Elementary	01883	Urban	754	150	20%	50%	X	377	
14	Prospect Park	06508	Urban	781	155	20%	50%	X	390.5	
15	Interboro High School	01885	Urban	1121	175	16%	40%	X	448.4	
16										
17										
18	<b>TOTALS</b>			<b>3854</b>					<b>1814.9</b>	<b>47%</b>

Block 4:

APPENDIX D

14.

School and School District Discount Calculations worksheet

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E	6	7		
2				For Schools:	For Schools:	divided by Colum D		Check if	Coloum G	Sum of Colum I
3		Nces or		Number of	Number of	equals		School or	X	divided by
4		Comparable		Students	Students		Discount	Library will	Coloum D	Sum of Colum D
5		Code for School		For Libraries:	Students	Percent	Calculated	use "Shared		Equals
6		or Library	Urban	NCES Code of a	Eligible for	of Students	from	Services"		Discount Rate for
7	Name of Individual	(Obtain from	or	School in its	National School	Eligible for	Discount	listed in item		Shared Services
8	School or Library	Administration	Rural	District	Lunch Program	School Lunch	Matrix	15		For School District
9										
10	Wallingford-Swarthmore School District	4224790								
11	The Kids Place Elementary	07304	Urban	207	2	1%	40%	X	82.8	
12	Nether Providence Elementary	01905	Urban	446	51	11%	40%	X	178.4	
13	Wallingford Elementary	01960	Urban	384	29	8%	40%	X	153.6	
14	Swarthmore Rutledge Elemenatry	01908	Urban	516	16	3%	40%	X	206.4	
15	Strathaven Middle School	01952	Urban	869	55	6%	40%	X	347.6	
16	Strathaven High School	05287	Urban	999	36	4%	40%	X	399.6	
17										
18										
19	<b>TOTALS</b>			<b>3421</b>					<b>1368.4</b>	<b>40%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E divided by Colum D equals	6	7	Coloum G X Coloum D	Sum of Colum I divided by Sum of Colum D Equals Discount Rate for Shared Services For School District
2				For Schools: Number of Students	For Schools: Number of Students			Check if School or Library will use "Shared Services" listed in item 15		
3		Nces or Comparable Code for School or Library (Obtain from Administration	Urban or Rural	For Libraries: NCES Code of a School in its District	Eligible for National School Lunch Program	Percent of Students Eligible for School Lunch	Discount Calculated from Discount Matrix			
4										
5										
6	Name of Individual School or Library									
7										
8										
9										
10	Ridley School District	4220370								
11	Amosland Elementary	01925	Urban	491	113	23%	50%	X	245.5	
12	Eddystone Elementary	05043	Urban	293	121	41%	60%	X	175.8	
13	Edgewood Elementary	01926	Urban	406	55	14%	40%	X	162.4	
14	Grace park Elementary	01928	Urban	367	51	14%	40%	X	146.8	
15	Lakeview Elementary	04705	Urban	506	99	20%	50%	X	253	
16	Leedom Elementary	01930	Urban	309	62	20%	50%	X	154.5	
17	Woodlyn Elementary	01932	Urban	300	171	57%	80%	X	240	
18	Ridley Middle School	07299	Urban	1227	287	23%	50%	X	613.5	
19	Ridley High School	01934	Urban	1667	219	13%	40%	X	666.8	
20										
21	<b>TOTALS</b>			<b>5566</b>					<b>2658.3</b>	<b>48%</b>

Block 4:  
14.

**APPENDIX D**  
**School and School District Discount Calculations worksheet**

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E divided by Colum D equals	6	7	Coloum G X Coloum D	Sum of Colum I divided by Sum of Colum D Equals Discount Rate for Shared Services For School District
2				For Schools: Number of Students	For Schools: Number of Students			Check if School or Library will use "Shared Services" listed in item 15		
3		Nces or Comparable Code for School or Library (Obtain from Administration	Urban or Rural	For Libraries: NCES Code of a School in its District	Eligible for National School Lunch Program	Percent of Students Eligible for School Lunch	Discount Calculated from Discount Matrix			
4										
5										
6	Name of Individual School or Library									
7										
8										
9										
10	Upper Darby School District	4224320								
11	Aronimink Elementary	01959	Urban	382	6	2%	40%	X	152.8	
12	Bywood Elementary	01960	Urban	960	178	19%	40%	X	384	
13	Garrettfoid Elementary	01964	Urban	782	35	4%	40%	X	312.8	
14	Highland Park Elementary	01965	Urban	886	76	9%	40%	X	354.4	
15	Hillcrest Elementary	01966	Urban	618	27	4%	40%	X	247.2	
16	Primos Elementary	00042	Urban	473	22	5%	40%	X	189.2	
17	Stonehurst Hill Elementary	01968	Urban	898	197	22%	50%	X	449	
18	Westbrook Park Elementary	01969	Urban	494	54	11%	40%	X	197.6	
19	Beverly Hill Middle School	01970	Urban	1384	227	16%	40%	X	553.6	
20	Drexel Hill Middle School	01971	Urban	1275	66	5%	40%	X	510	
21	Upper Darby High School	01972	Urban	3273	353	11%	40%	X	1309.2	
22										
23	<b>TOTALS</b>			<b>11425</b>					<b>4659.8</b>	<b>41%</b>

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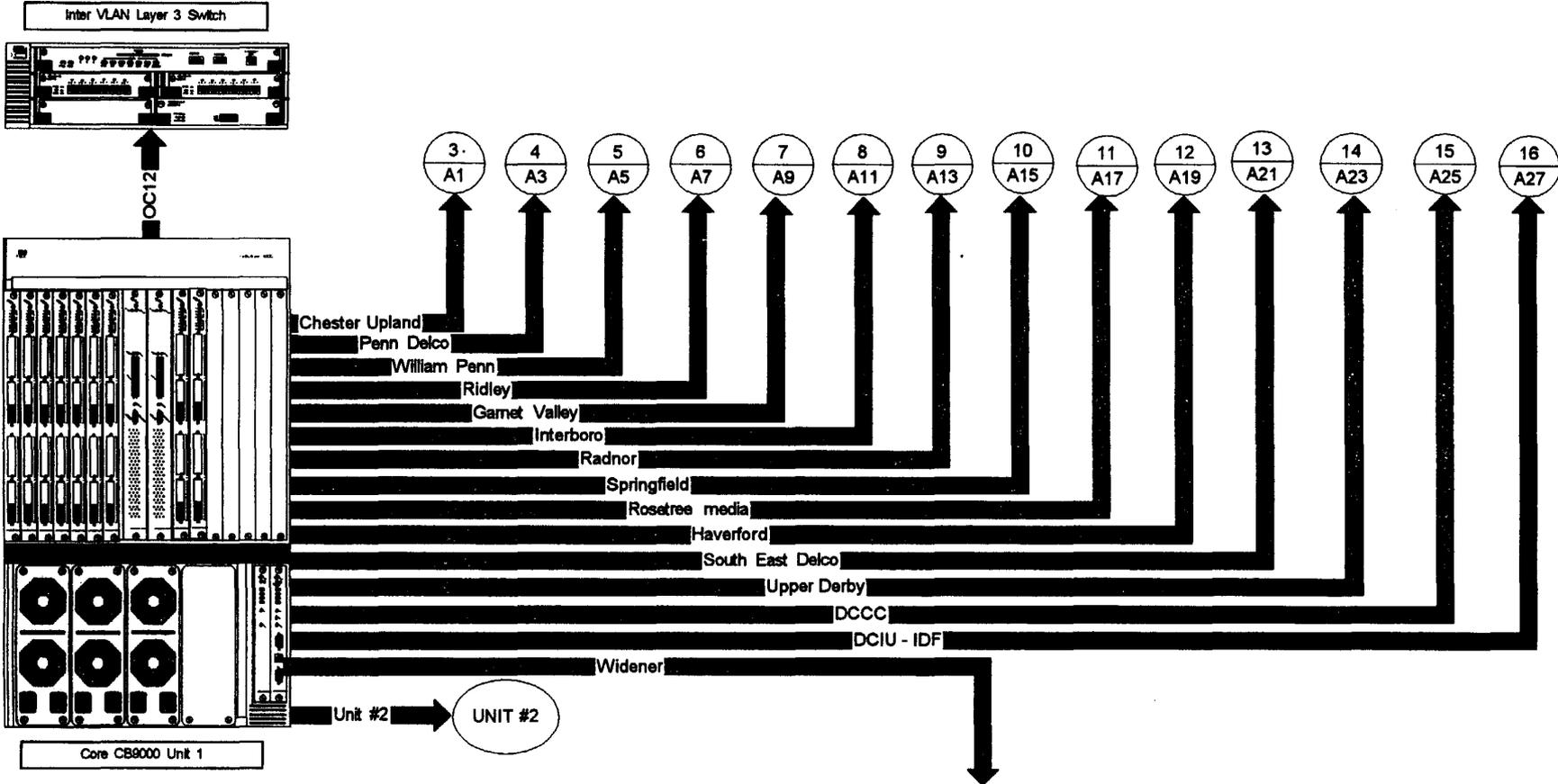
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APPENDIX D

School and School District Discount Calculations worksheet

	A	B	C	D	E	F	G	H	I	J
1	1	2	3	4	5	Coloum E divided by Colum D equals	6	7	Coloum G X Coloum D	Sum of Colum I divided by Sum of Colum D Equals
2				For Schools: Number of Students	For Schools: Number of Students	Percent of Students	Discount Calculated from Discount Matrix	Check if School or Library will use "Shared Services" listed in item 15		Discount Rate for Shared Services For School District
3		Nces or Comparable Code for School or Library (Obtain from Administration	Urban or Rural	For Libraries: NCES Code of a School in its District	Eligible for National School Lunch Program	Eligible for School Lunch				
4	Name of Individual School or Library									
11	Chester Upland School District	4205860								
12	WmPenn	01834	Urban	564	524	93%	90%	X	507.6	
13	Columbus	06491	Urban	1057	887	84%	90%	X	951.3	
14	Bookek T Washington	06500	Urban	451	368	81%	90%	X	405.9	
15	Stetser	01829	Urban	363	335	92%	90%	X	326.7	
16	Toby Farms	01842	Urban	732	550	75%	90%	X	658.8	
17	Wetherill	01832	Urban	396	303	77%	90%	X	356.4	
18	Main Street	01958	Urban	506	291	58%	80%	X	404.8	
19	Pulaski	01838	Urban	609	579	95%	90%	X	548.1	
20	Showalter	01835	Urban	446	288	65%	80%	X	356.8	
21	Smedley	06499	Urban	567	453	80%	90%	X	510.3	
22	Chester High	06492	Urban	1607	777	48%	60%	X	964.2	
23										
24	<b>TOTALS</b>			<b>7298</b>					<b>5990.9</b>	<b>82%</b>

# Delaware County Network Primary Core



9000 with 15X OC12SM
3X OC12MM
Redundant switching fabric and 3 power supplies.
3500 with OC12 Port

— 100baseTX —

■ OC3 SM →

— OC3 MM →

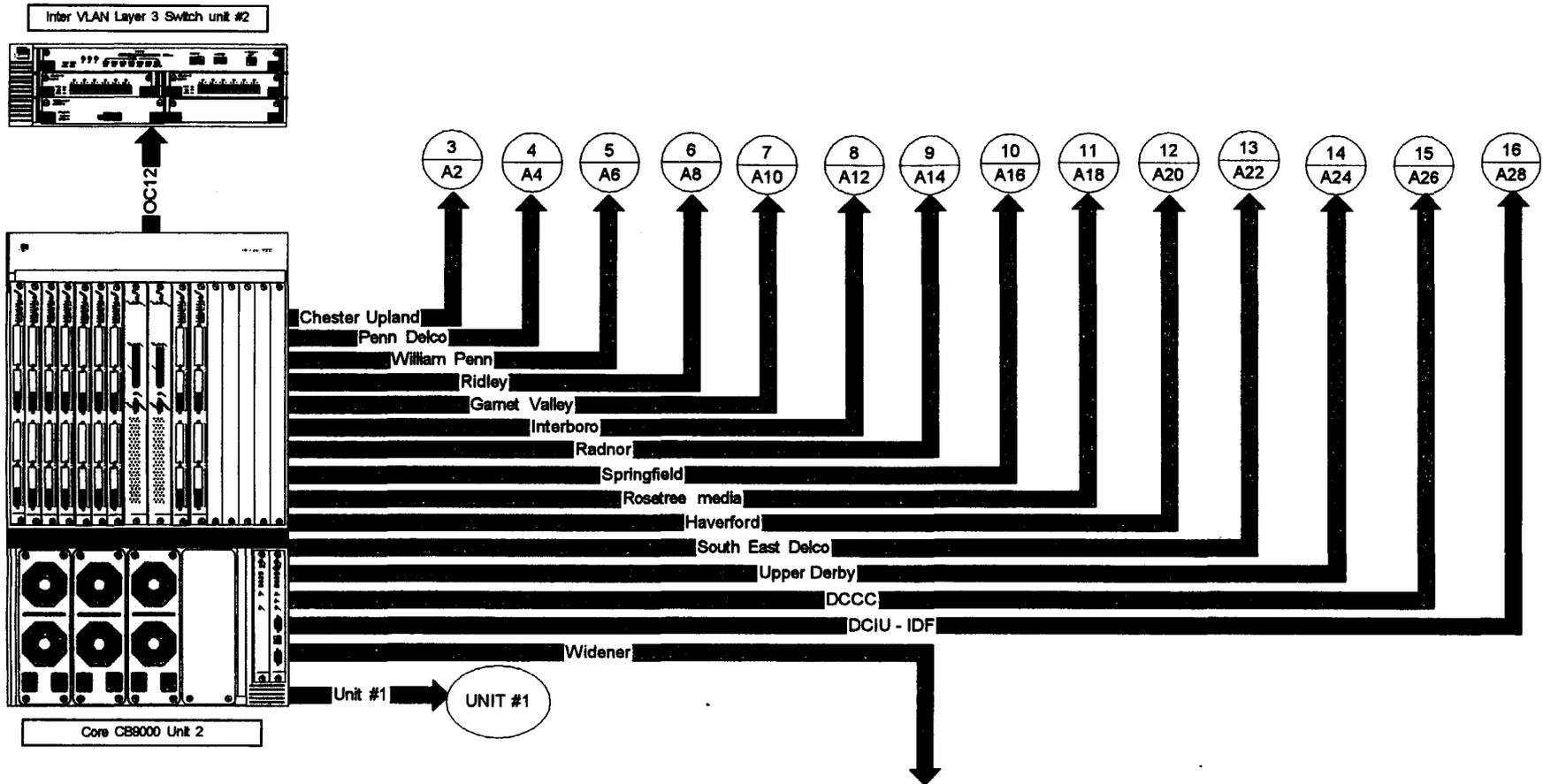
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■ OC12 SM →

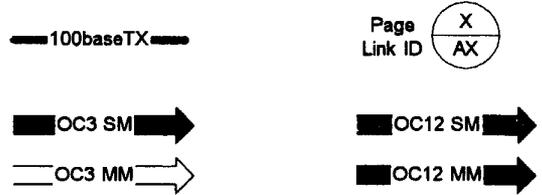
■ OC12 MM →

<p>3Com Networks That Go the Distance™</p>	Created by 3Com Date 5/14/99 Title 3525 P1 FILE DELAWARE COUNTY COREVSD Page 1 of 15	Core
	Drawing is Not To Scale	Primary Core

# Delaware County Network Secondary Core

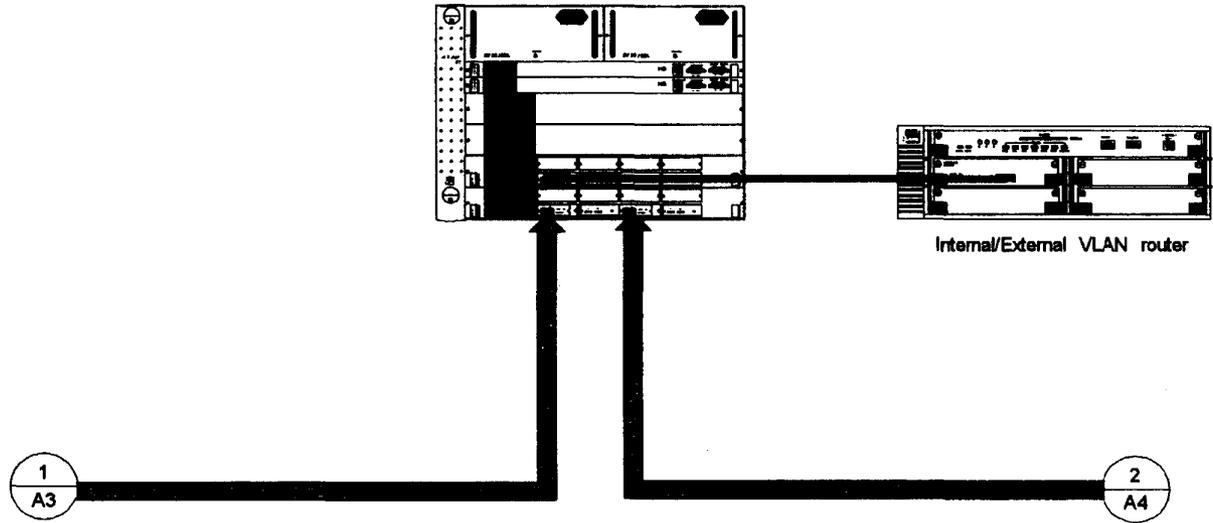


9000 with 15X OC12SM
3X OC12MM
Redundant switching fabric and 3 power supplies.
3500 with OC12 Port

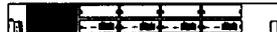
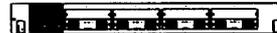


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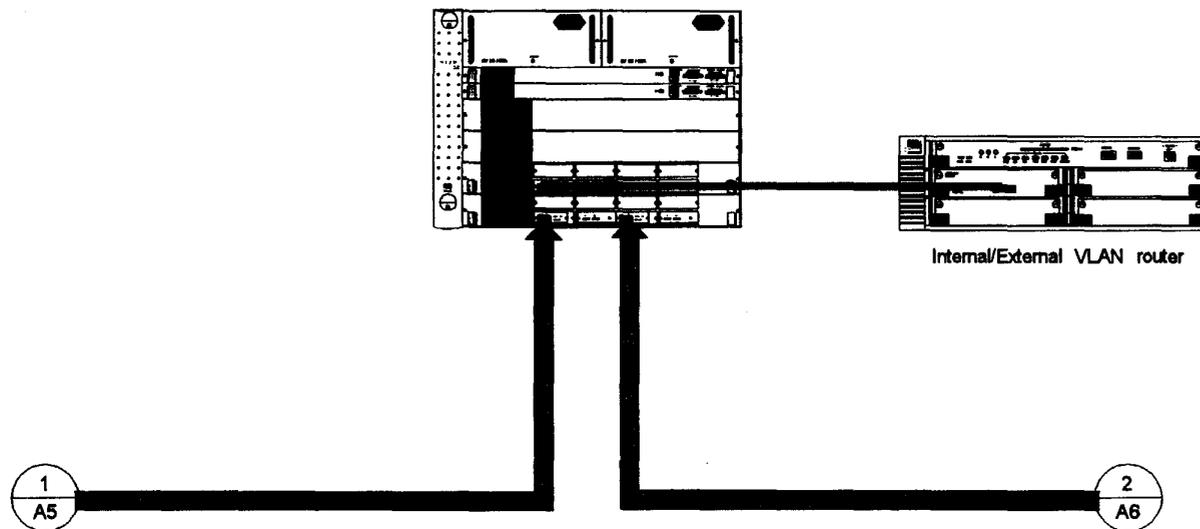
# Penn Delco



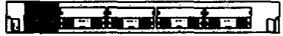
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p>  <p style="text-align: center;">OC12 Carrier Module 3C37180</p>  <p style="text-align: center;">OC12 Physical Module 3C37080/37081 SM/MM</p>  <p style="text-align: center;">OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p style="text-align: center;"><b>ETHERNET</b></p>  <p style="text-align: center;">4 Port Gigabit Module 3C37800</p>  <p style="text-align: center;">Fiber 100basefx 8port module with 8 port extra capacity 3C37808</p>  <p style="text-align: center;">TP 10/100 8 port module with 8 port extra capacity 3C37617</p>
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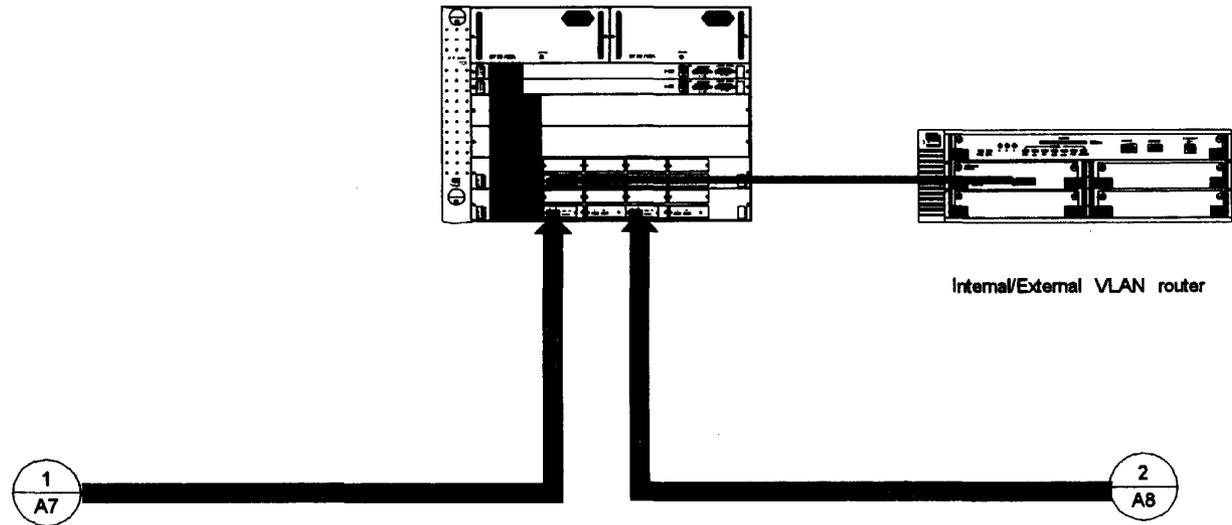
# William Penn



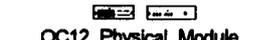
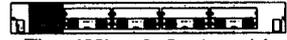
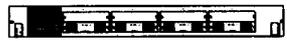
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p>  <p style="text-align: center;">OC12 Carrier Module 3C37180</p>  <p style="text-align: center;">OC12 Physical Module 3C37080/37081 SM/MM</p>  <p style="text-align: center;">OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p style="text-align: center;"><b>ETHERNET</b></p>  <p style="text-align: center;">4 Port Gigabit Module 3C37800</p>  <p style="text-align: center;">Fiber 100basefx 8port module with 8 port extra capacity 3C37608</p>  <p style="text-align: center;">TP 10/100 8 port module with 8 port extra capacity 3C37617</p>
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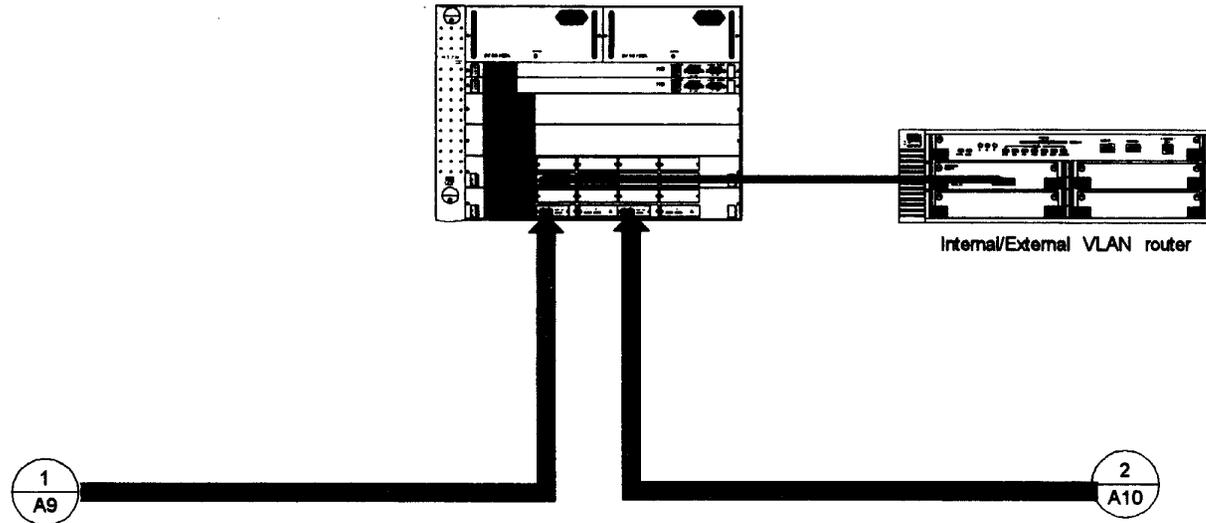
# Ridley



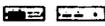
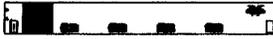
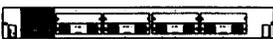
**Options for Internal Connectivity**

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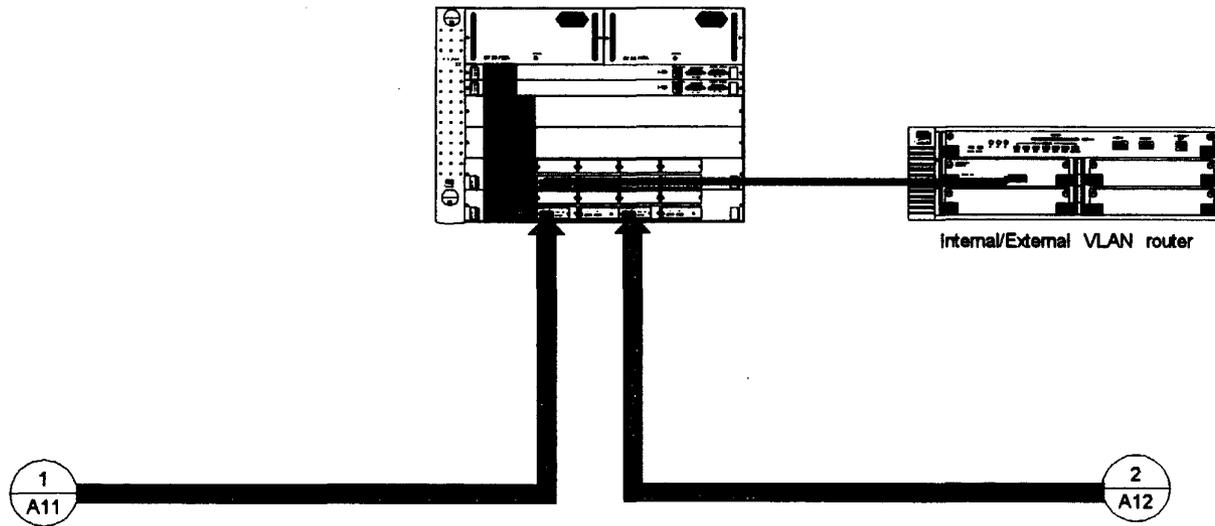
# Garnet Valley



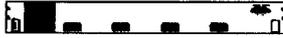
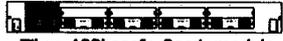
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p>  <p style="text-align: center;">OC12 Carrier Module 3C37180</p>  <p style="text-align: center;">OC12 Physical Module 3C37080/37081 SM/MM</p>  <p style="text-align: center;">OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p style="text-align: center;"><b>ETHERNET</b></p>  <p style="text-align: center;">4 Port Gigabit Module 3C37800</p>  <p style="text-align: center;">Fiber 100baseX 8port module with 8 port extra capacity 3C37608</p>  <p style="text-align: center;">TP 10/100 8 port module with 8 port extra capacity 3C37617</p>
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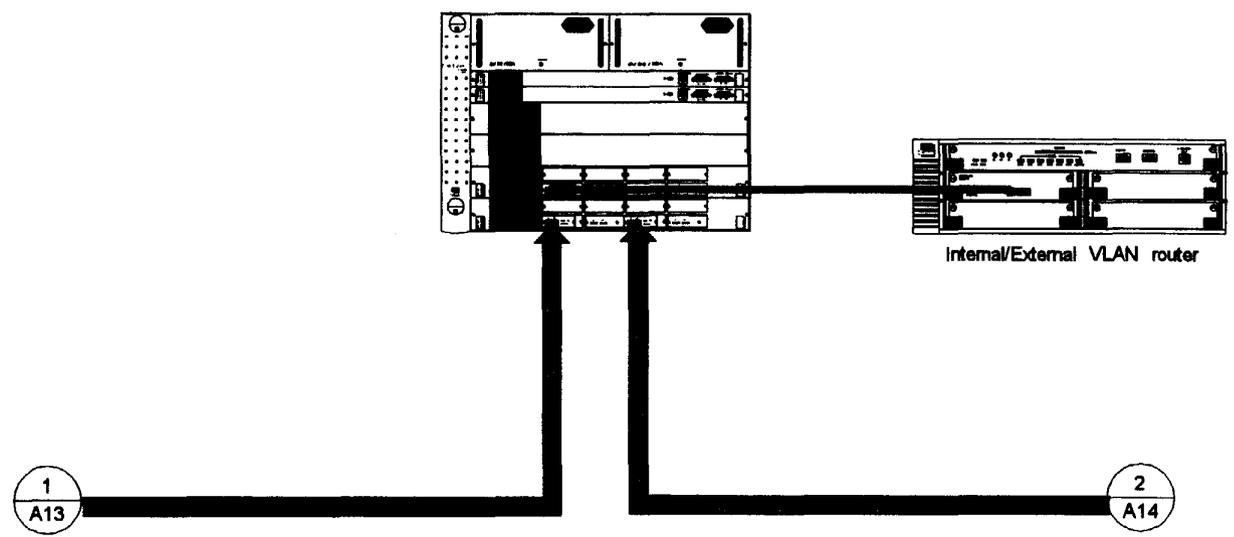
# Interboro



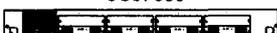
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p>  <p style="text-align: center;">OC12 Carrier Module 3C37180</p>  <p style="text-align: center;">OC12 Physical Module 3C37080/37081 SMM/MM</p>  <p style="text-align: center;">OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p style="text-align: center;"><b>ETHERNET</b></p>  <p style="text-align: center;">4 Port Gigabit Module 3C37800</p>  <p style="text-align: center;">Fiber 100basefx 8port module with 8 port extra capacity 3C37608</p>  <p style="text-align: center;">TP 10/100 8 port module with 8 port extra capacity 3C37617</p>
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# Radnor



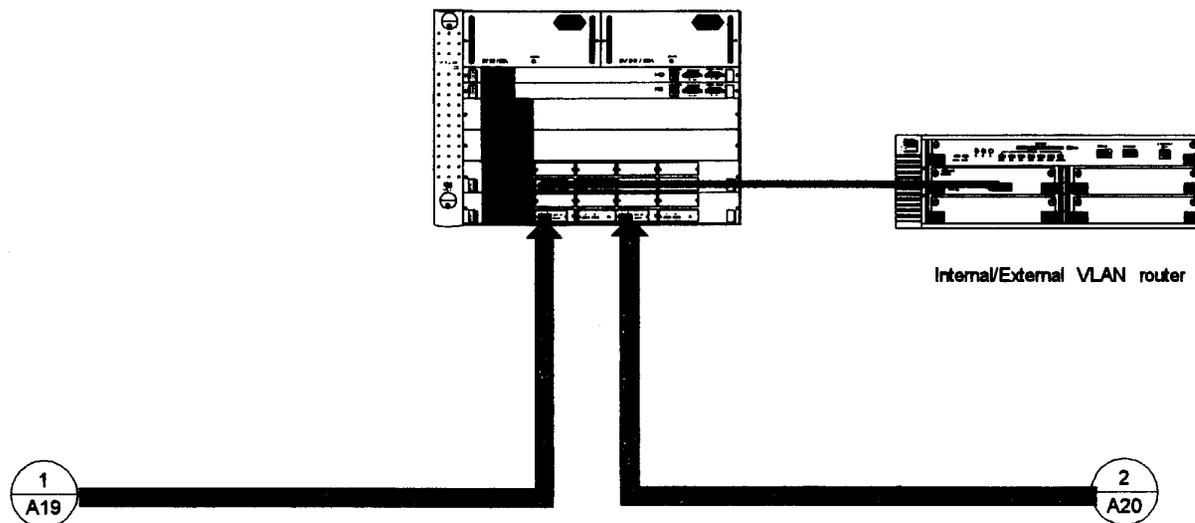
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p>  <p style="text-align: center;">OC12 Carrier Module 3C37180</p>  <p style="text-align: center;">OC12 Physical Module 3C37080/37081 SM/MM</p>  <p style="text-align: center;">OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p style="text-align: center;"><b>ETHERNET</b></p>  <p style="text-align: center;">4 Port Gigabit Module 3C37800</p>  <p style="text-align: center;">Fiber 100basefx 8port module with 8 port extra capacity 3C37608</p>  <p style="text-align: center;">TP 10/100 8 port module with 8 port extra capacity 3C37817</p>
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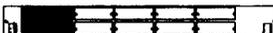
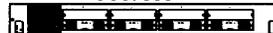
**Rose Tree (to be determined)**

 <small>Networks That Go the Distance™</small>	Created by: 3Com Date: 5/14/99 Time: 3:23:25 PM File: DELAWARE COUNTY COREVSD	Core
	Page 11 of 16	Rose Tree
Drawing is Not To Scale		

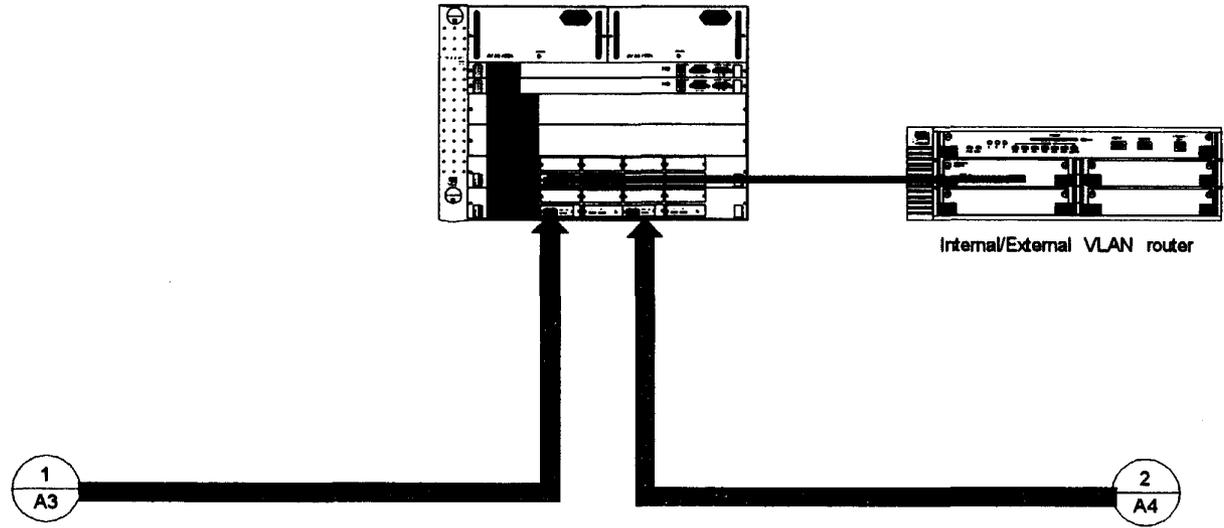
# Haverford



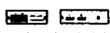
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p> <div style="text-align: center;">   <b>OC12 Carrier Module</b>  <b>3C37180</b> </div> <div style="text-align: center;">   <b>OC12 Physical Module</b>  <b>3C37080/37081 SM/MM</b> </div> <div style="text-align: center;">   <b>OC3 Interface Module 4 Ports</b>  <b>MM populated</b>  <b>3C37152</b> </div>	<p style="text-align: center;"><b>ETHERNET</b></p> <div style="text-align: center;">   <b>4 Port Gigabit Module</b>  <b>3C37800</b> </div> <div style="text-align: center;">   <b>Fiber 100basefx 8port module</b>  <b>with 8 port extra capacity</b>  <b>3C37608</b> </div> <div style="text-align: center;">   <b>TP 10/100 8 port module with</b>  <b>8 port extra capacity</b>  <b>3C37617</b> </div>
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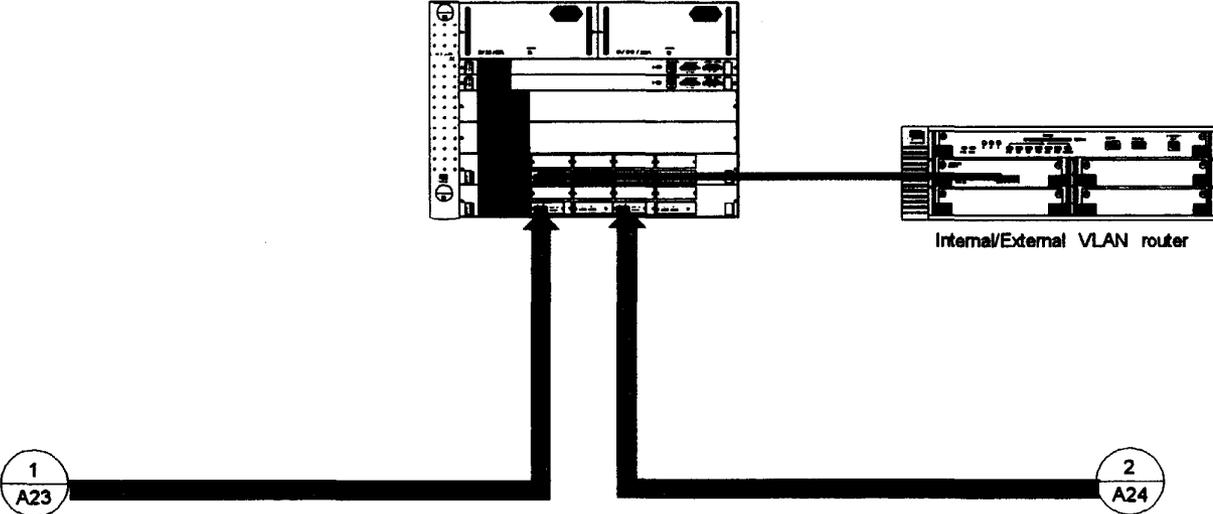
# S.E.Delco



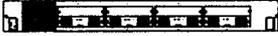
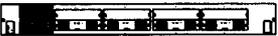
**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p> <div style="text-align: center;">               OC12 Carrier Module              3C37180         </div> <div style="text-align: center;">               OC12 Physical Module              3C37080/37081 SM/MM         </div> <div style="text-align: center;">               OC3 Interface Module 4 Ports              MM populated              3C37152         </div>	<p style="text-align: center;"><b>ETHERNET</b></p> <div style="text-align: center;">               4 Port Gigabit Module              3C37800         </div> <div style="text-align: center;">               Fiber 100basefx 8port module              with 8 port extra capacity              3C37808         </div> <div style="text-align: center;">               TP 10/100 8 port module with              8 port extra capacity              3C37817         </div>
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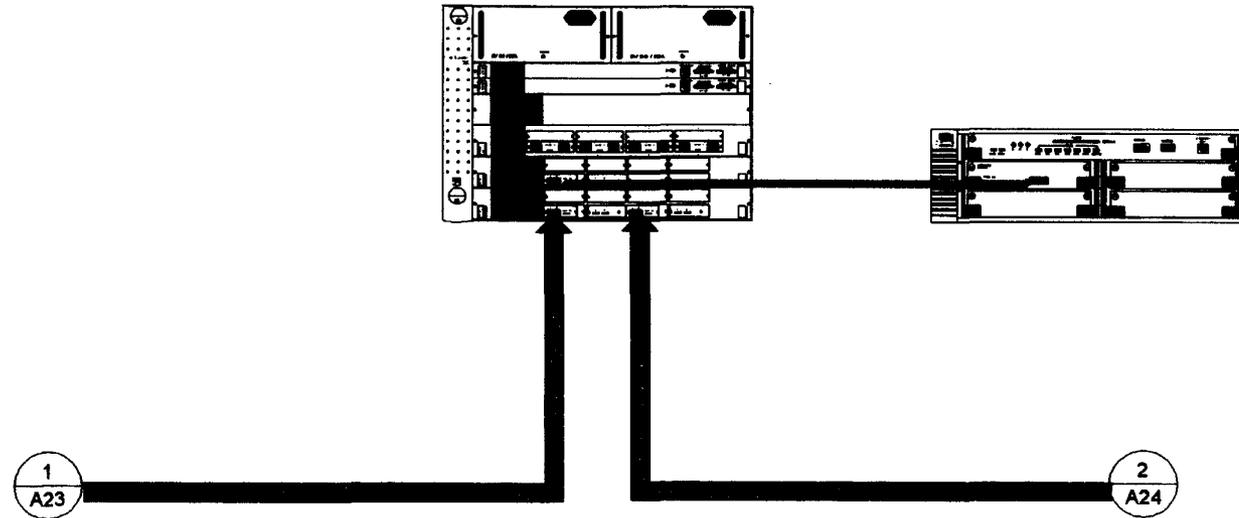
# Upper Derby



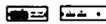
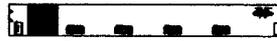
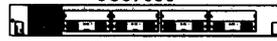
**Options for Internal Connectivity**

<p><b>ATM</b></p>  <p>OC12 Carrier Module 3C37180</p>  <p>OC12 Physical Module 3C37080/37081 SM/MM</p>  <p>OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p><b>ETHERNET</b></p>  <p>4 Port Gigabit Module 3C37800</p>  <p>Fiber 100basefx 8port module with 8 port extra capacity 3C37608</p>  <p>TP 10/100 8 port module with 8 port extra capacity 3C37617</p>
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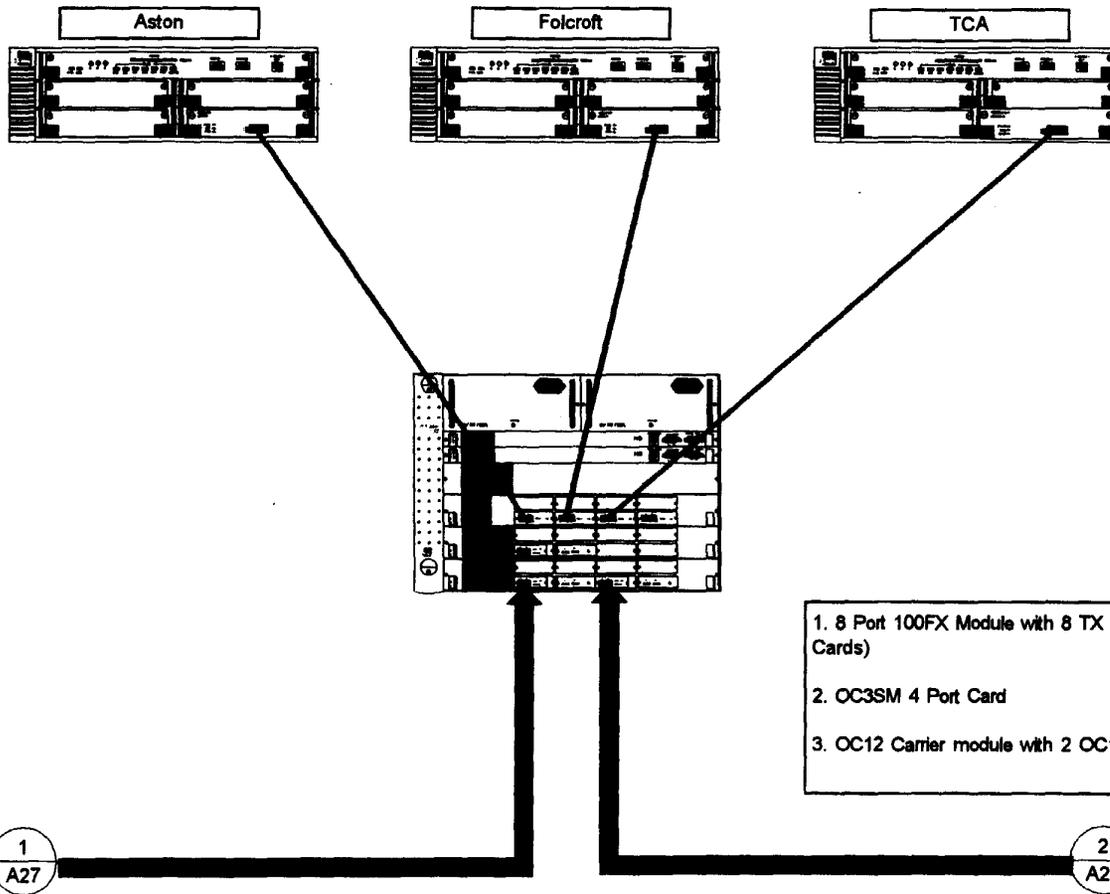
# DCCC



**Options for Internal Connectivity**

<p style="text-align: center;"><b>ATM</b></p>  <p style="text-align: center;">OC12 Carrier Module 3C37180</p>  <p style="text-align: center;">OC12 Physical Module 3C37080/37081 SM/MM</p>  <p style="text-align: center;">OC3 Interface Module 4 Ports MM populated 3C37152</p>	<p style="text-align: center;"><b>ETHERNET</b></p>  <p style="text-align: center;">4 Port Gigabit Module 3C37800</p>  <p style="text-align: center;">Fiber 100basefx 8port module with 8 port extra capacity 3C37808</p>  <p style="text-align: center;">TP 10/100 8 port module with 8 port extra capacity 3C37617</p>
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# DCIU - IDF



- 1. 8 Port 100FX Module with 8 TX ports (4 Daughter Cards)
- 2. OC3SM 4 Port Card
- 3. OC12 Carrier module with 2 OC12 MM Modules