



**Marathon County  
Land Information Council (LIC)  
Minutes  
Wednesday April 19, 2023  
Conservation, Planning and Zoning Large Conference Room  
210 River Drive, Wausau, WI**

<b>Attendance:</b>	<b><u>Present</u></b>	<b><u>Not Present</u></b>	Attendance	<b><u>Present</u></b>	<b><u>Not Present</u></b>
Preston Vande Voort.....X			Dean Stratz.....X		
Ryan Weber.....X			Jasper Hartinger.....X		
Robert Mayer.....X			Connie Beyersdorf.....X		
Gerry Klein .....X			Scott Williams.....X		
Dave Decker.....X					

*Others:* Diane Hanson, Nicole DeLonay, Dave Mack - Conservation, Planning and Zoning (CPZ)

1. Call to Order

The meeting was called to order by Vande Voort at 9:00 a.m.

2. Approve minutes of March 28, 2023, meeting

**Action:** Motion / second by Williams/ Stratz to approve the minutes of the April 19, 2023, meeting.  
motion carried on voice vote, no dissent.

3. Use of Retained Fees for 2023 Migration of Ascent Land Records/Permitting Systems, LandLink, Landshark, Lighthouse, and Land Notification Test Environment to a new Windows Server – Gerry Klein, CCIT -Director

**Discussion:** Klein explained the need for approximately \$9,240 from the retained fees for the labor costs for the 2023 migration of the above-mentioned systems to a new 2022 Windows Server. This migration is necessary as these programs are currently operating on an old 2012 Windows Server.

Motion/ Second by Williams/Klein to approve the use of \$9,240 from retained fee for 2023 migration of Ascent Land Records/Permitting Systems, LandLink, Landshark, Lighthouse, and Land Notification Test Environment to a new Windows Server. Discussion occurred that since one of the estimates is based on hours worked, it may be beneficial to add some additional funds in the motion to ensure that the full costs will be covered if there should be any overages due to migration issues.

Motion/Second by Williams/Klein to amend the motion above to approve the use of up to \$10,000 from retained fee for 2023 migration of Ascent Land Records/Permitting Systems, LandLink, Landshark, Lighthouse, and Land Notification Test Environment to a new Windows Server. Amended motion carried.

4. Next Meeting Date: To be Determined.

5. Adjourn.

There being no further business to discuss, Motion / Second by Williams/ Decker to adjourn the meeting at 9:13 a.m.  
Motion carries by voice vote, no dissent.

Submitted by:  
Preston Vande Voort  
GIS Coordinator  
April 19, 2023

**LAND RECORDS RETAINED FEES**

Accounts

**FY2024**

<b>46100 - 46138 County Land Records Fee</b>	135,000
<b>Subtotal</b>	<b>135,000</b>
<b>60000 - Hardware and Software Maintenance Services</b>	41,500
<b>50320 - 53250 Registration Fees/tuition</b>	12,474
<b>50150 - 51510 Social Security</b>	5,295
<b>50150 - 51520 Retirement Employers Share</b>	4,776
<b>50150 - 51550 Life Insurance</b>	267
<b>50150 - 51560 Workers Compensation</b>	851
<b>50150 - 51580 Unemployment Compensation</b>	69
<b>50150 - 51590 Other Employer Contributions</b>	546
<b>50110 - 51111 Salaries and Wages</b>	69,221
<b>Subtotal</b>	<b>135,000</b>
<b><u>Net Change</u></b>	<b><u>0</u></b>

**Proposal/Estimate – Marathon County**

Description/Project Scope	Pricing
<p><u>ROD Imaging Integration Changes</u></p> <p>Update Register of Deeds document imaging integration (Laserfiche), to utilize URL-based query to fetch documents (as is done in APM &amp; NMM). The URL TTEch should configure will be provided by I.T., along with a few test/example documents to use for verification of the features functionality (after agreement is signed). The proposed URL-based method of fetching ROD documents will replace the current Laserfiche integration, which is utilizing .dll files of a local Laserfiche application hosted on County's webserver.</p> <p>*Please note that the hours noted above are an <b>“estimate”</b>. The dollar amount reflected in any estimate can vary. Estimates are made in good faith based on information furnished by the client. Estimates do not constitute Transcendent Technology's agreement to furnish time and materials for a certain price or for a “not to exceed” price, but instead are provided solely for client's budgeting and Transcendent Technology's resource scheduling.</p> <p>*The terms of the original Land Records Software License Agreement apply to this project.</p>	<p>Estimated Hourly Services: 3 to 6 hrs @ \$165/hr*</p>

**APPROVALS**

This Agreement is agreed to and accepted by:

**Transcendent Technologies, LLC**

**Customer**

By: (Approved - KLW)

By:

\_\_\_\_\_

\_\_\_\_\_

Name: Kristy Wurzer

Name:

\_\_\_\_\_

\_\_\_\_\_

Title: Sales & Marketing Manager

Title:

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\_\_\_\_\_

Date: 4/20/23

Date:

\_\_\_\_\_

\_\_\_\_\_

**Upon signing:**

**Scan & Email a signed copy to Kristy Wurzer: [kwurzer@transcendenttech.com](mailto:kwurzer@transcendenttech.com)**



7018 Bluffwood Ct  
 Brownsburg IN 46112  
 USA

Marathon County CPZ  
 210 River Dr  
 Wausau WI 54403

## Invoice

Invoice #	5512
Account #	31590
Account Name	Marathon County GIS
Contact	preston.vandervoort@co.marathon.wi.us
Inv Date	Jun 12, 2023
Due Date	Jul 12, 2023

Date	Item#	Description	Amount
Jun 11, 2023	91888	Unlimited-use subscription to DiamondMaps.com for 12 months ( Jul 08, 2023 to Jul 08, 2024) at rate of \$75.00 per month	\$900.00
<b>Invoice Total</b>			<b>\$900.00</b>

<p><b>Pay By Check</b></p> <p>Make check payable to:                  Diamond Maps                  7018 Bluffwood Ct                  Brownsburg, IN 46112</p>	or	<p><b>Pay Online</b></p> <p><a href="https://diamondmaps.com/pay">diamondmaps.com/pay</a></p>
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Benjamin A. Hill, Inc. (dba Diamond Maps) is an Indiana corporation.  
 (317) 286-6321 - [CustomerService@diamondmaps.com](mailto:CustomerService@diamondmaps.com)

September 14, 2023

Preston Vande Voort  
GIS Coordinator / LIO  
Department of Conservation, Planning & Zoning  
210 River Drive, Wausau, WI 54403  
715.261.6048

Re: Marathon County – Updated Lidar Project Profile 2023-24

Dear Preston,

Thank you for the opportunity to present this Lidar Project Profile to Marathon County. This letter includes information for planning to put your 2021 Lidar to use throughout the County including improving the lidar base specifications, and enhancements and derivatives to help you make the most use of your data.

### How to use your new Lidar?

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Lidar technology has been used in Wisconsin since the early 2000's for high accuracy topographic mapping. Marathon County collected its last Lidar project in 2021 and it is ready to be put to use. There have been many changes in the landscape and infrastructure development in the last several years. In addition, advancements in Lidar technology and federal funding opportunities sped up the timeline for updating Lidar across Wisconsin. Marathon's 2021 Lidar collection is among the most accurate countywide datasets in Wisconsin due to improved technology and new specifications. With all the changes to the landscape it is important to put this data to use right away.

### Lidar advancements since your last project

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- Point density increases:
  - From QL3 - equates to 1 points per square meter
  - To QL2 - equates to 2 points per square meter
- Vertical accuracy is improved
- Data supports 1-ft contour interval
- Data supports 2-ft pixel DEM
- Supports improved above ground classifications
- Data supports generation of countywide 2D building outlines, culvert mapping, surface drainage analysis, change detection, and more.

### Existing USGS Data Deliverables

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Delivered 2020 Base QL2 project datasets and reports:

- Base classified point cloud (does not include buildings or veg), LAS format
- Hydro flattening breaklines (100-ft streams and 2 acre ponds), ESRI shapefile format
- Bare earth DEM, 32-bit floating point grid
- Vertical accuracy report (NVA and VVA)
- Data acquisition and processing QC reports
- Tile schematic, ESRI shapefile format

## Existing County Enhanced Data Deliverables

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QL2 project enhanced datasets:

- Automated classification of buildings and vegetation
- 1-ft contours (topologically cleaned, all types)
- Improved hydro breaklines (20-ft and wider streams and 2-acre and larger ponds)
- Bare earth DEM, 32-bit floating point grid
- Bare earth dataset – class 2 points only
- Intensity imagery raster
- Digital Surface Model (DSM) of first returns

## 2024 Marathon County Data Cost Breakdown

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Marathon County's project is approximately 1576 square miles.

Additional Lidar enhancements and derivatives for consideration:

- Ayres QL2 Lidar Online web application: \$9,750 (first year)
- Culvert collection and hydro-enforced DEM: \$61,350
- 2D Building outlines: \$17,750
- 2D Tree Canopy outlines: \$10,800
- 6% / 12% / 20%+ Slope Model: \$5,600
- \*Closed depression modeling: \$19,800
- \*\*Flow Accumulation modeling and catchments: \$25,250
- \*EVAAL Soil Erosion Vulnerability Assessment: \$29,600

\* Requires that the culvert collection is completed.

\*\* Requires that the culvert collection and depressions are completed.

## Contracting

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The county would contract directly with Ayres Associates for the enhancements and derivatives.

## Timeline

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Final deliverables from Ayres will be ready 9 months after the County the execution of an agreement.

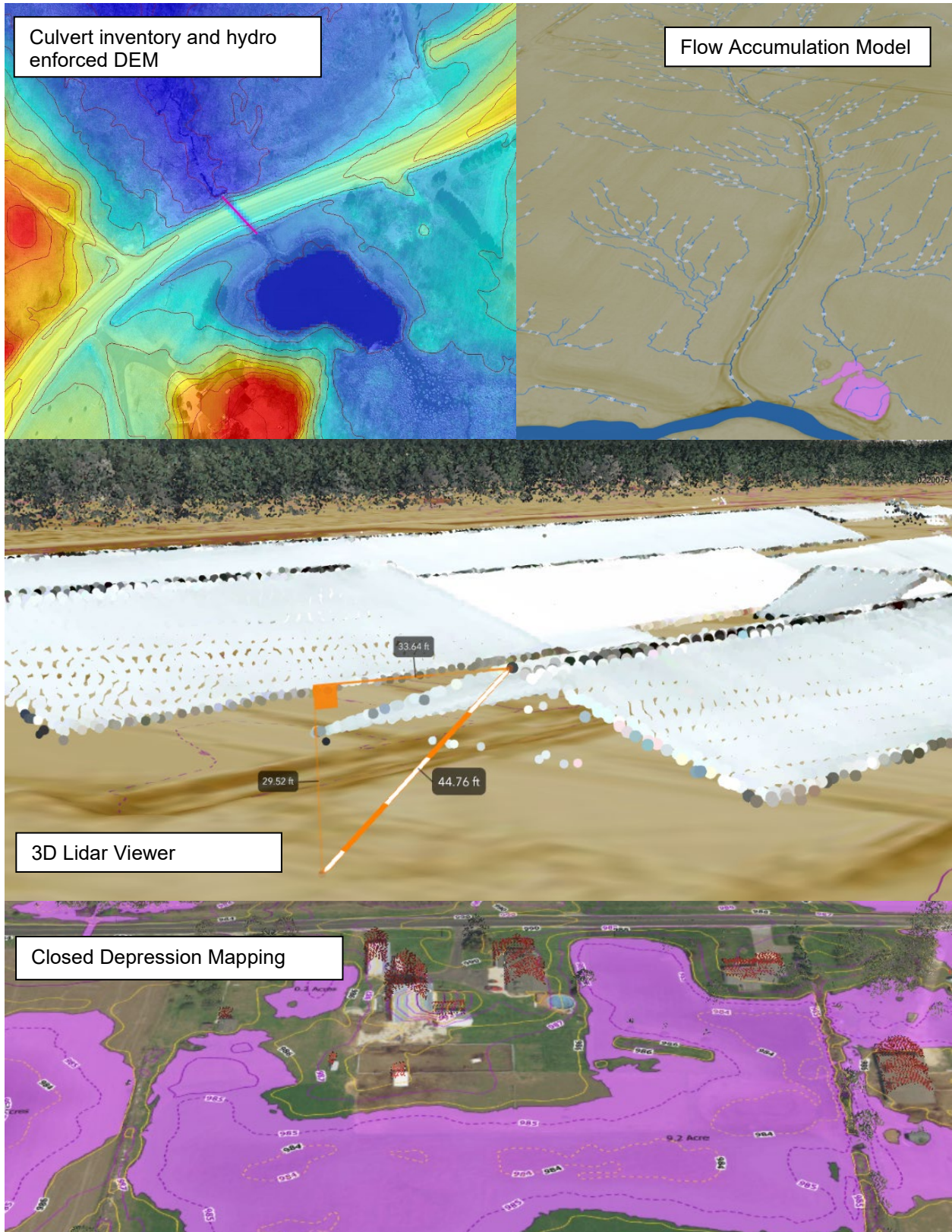
Thank you for your consideration on this important project for Marathon County. If you have any questions on the proposed services, please feel free to contact me at 608.443.1231.

Sincerely,



Adam Derringer, GISP  
Ayres Associates  
Senior Project Manager  
Direct: 608.443.1231

QL2 Lidar Datasets



FIN - Budget vs Actual for Organization

Company: County of Marathon  
 Organization: Cost Center: Land Information  
 Period: FY2023 - Oct  
 Has No Project: No  
 Has No Program: No  
 Has No Business Unit: No  
 Has No Grant: No

Ledger Account	Original Budget	Amended Budget	Actuals (Current Period)	Actuals (YTD)	Commitments	Obligations	Actuals & Encumbrances	Budget Remaining	Budget Used (%)
Revenues	261,592	262,333	3,438	133,109	0	0	(133,109)	(129,224)	50.74%
Other Financing Sources	2,000	2,741	0	0	0	0	0	(2,741)	0.00%
Transfer from Other Funds	2,000	2,741	0	0	0	0	0	(2,741)	0.00%
Revenues	261,592	262,333	3,438	133,109	0	0	(133,109)	(129,224)	50.74%
Other Financing Sources	2,000	2,741	0	0	0	0	0	(2,741)	0.00%
Intergovernmental Revenue	51,000	51,000	0	26,000	0	0	(26,000)	(25,000)	50.98%
Public Charges for Services	208,592	208,592	3,438	107,109	0	0	(107,109)	(101,483)	51.35%
<b>Total Revenues</b>	<b>261,592</b>	<b>262,333</b>	<b>3,438</b>	<b>133,109</b>	<b>0</b>	<b>0</b>	<b>(133,109)</b>	<b>(129,224)</b>	<b>50.74%</b>
Expenditures	251,092	251,833	0	152,759	0	0	152,759	99,073	60.66%
Personnel	77,312	77,312	0	55,705	0	0	55,705	21,607	72.05%
Salaries and Wages	66,082	66,082	0	47,819	0	0	47,819	18,263	72.36%
Salaries and Wages	66,082	66,082	0	47,819	0	0	47,819	18,263	72.36%
Benefits	11,230	11,230	0	7,886	0	0	7,886	3,344	70.22%
Employer Contributions	11,230	11,230	0	7,886	0	0	7,886	3,344	70.22%
Contractual Services	50,000	50,000	0	27,195	0	0	27,195	22,805	54.39%
210 Professional Services	0	0	0	1,995	0	0	1,995	(1,995)	0.00%
Professional Services	0	0	0	1,995	0	0	1,995	(1,995)	0.00%
250 Special Services	0	0	0	23,800	0	0	23,800	(23,800)	0.00%
Special Services	0	0	0	23,800	0	0	23,800	(23,800)	0.00%
290 Other Contractual Services	50,000	50,000	0	1,400	0	0	1,400	48,600	2.80%
Other Contractual Services	50,000	50,000	0	1,400	0	0	1,400	48,600	2.80%
Discretionary Operating	123,780	124,521	0	2,614	0	0	2,614	121,907	2.10%
310 Office Supplies	120,780	120,780	0	620	0	0	620	120,161	0.51%
Office Supplies	120,780	120,780	0	620	0	0	620	120,161	0.51%
320 Publications, Subscriptions and Dues	700	700	0	0	0	0	0	700	0.00%
Publications, Subscriptions and Dues	700	700	0	0	0	0	0	700	0.00%
330 Travel	2,300	3,041	0	666	0	0	666	2,374	21.91%



FIN - Budget vs Actual for Organization

Ledger Account	Original Budget	Amended Budget	Actuals (Current Period)	Actuals (YTD)	Commitments	Obligations	Actuals & Encumbrances	Budget Remaining	Budget Used (%)
Travel	2,300	3,041	0	666	0	0	666	2,374	21.91%
390 Other Supplies and Expense	0	0	0	1,328	0	0	1,328	(1,328)	0.00%
Other Supplies and Expense	0	0	0	1,328	0	0	1,328	(1,328)	0.00%
Capital Outlay	0	0	0	67,246	0	0	67,246	(67,246)	0.00%
Capital Outlay	0	0	0	67,246	0	0	67,246	(67,246)	0.00%
<b>Total Expenditures</b>	<b>251,092</b>	<b>251,833</b>	<b>0</b>	<b>152,759</b>	<b>0</b>	<b>0</b>	<b>152,759</b>	<b>99,073</b>	<b>60.66%</b>
<b>Net Change</b>	<b>10,500</b>	<b>10,500</b>	<b>3,438</b>	<b>(19,651)</b>	<b>0</b>	<b>0</b>	<b>19,651</b>	<b>(30,151)</b>	<b>(187.15%)</b>

GL785 Report: BSACCTDTL2

BALANCE SHEET WITH DETAIL ACCT

As of DECEMBER 31, 2022

Fund 100 GENERAL FUND

Sub Fund 112 LAND RECORDS

	CURRENT YEAR	PRIOR YEAR	DIFFERENCE
BALANCE SHEET			
ASSETS			
CASH CONTROL	567,786.27	597,741.94	29,955.67-
CASH & MARKETABLE SECURITIES	567,786.27	597,741.94	29,955.67-
TOTAL ASSETS	567,786.27	597,741.94	29,955.67-
LIABILITIES			
SALARIES & WAGES PAYABLE	4,515.21-	211.09-	4,304.12-
ACCOUNTS PAYABLE	4,515.21-	211.09-	4,304.12-
TOTAL LIABILITIES	4,515.21-	211.09-	4,304.12-
FUND BALANCE			
RESD FOR LAND RECORDS 6	377,111.21-	377,111.21-	
RESD FOR LAND RECORDS 2	220,419.64-	220,419.64-	
FUND BALANCE-SYSTEM		34,823.14-	34,823.14
FUND BALANCES	597,530.85-	632,353.99-	34,823.14
FUND BALANCE - CURRENT	34,259.79	34,823.14	563.35-
TOTAL FUND BALANCE	563,271.06-	597,530.85-	34,259.79
TOTAL FUND BALANCE & LIABILITIES	567,786.27-	597,741.94-	29,955.67

Land Information Program  
5 Year Plan

Funding from Retained Fees

Program/Project	Possible Vendors	2023	2024	2025	2026	2027	2028
ArcGIS Enterprise Update	ProWest		\$7,150		\$7,500		\$7,500
VertiGIS Update	Reukert & Mielke		\$7,150	\$1,500	\$1,500	\$1,500	\$1,500
Workflows	Reukert & Mielke		\$5,700	\$1,500	\$3,000	\$1,500	\$1,500
Additional Services (for any unexpected work arounds/system issues)	Reukert & Mielke		\$3,000				
Software Maintainece	ESRI Licence VertiGIS Diamond (hope to eliminate this in the future) Trimble ArcGIS Online AWS3 (File Storage) Xtools (extension dbs tables) <b>Long term approach to GIS</b> ArcGIS Experience Builder License Manager - Named Users	\$24,300 \$7,000 \$900 \$500	\$25,000 \$10,000 \$1,000 \$500 \$1,500 \$500 \$200	\$27,000 \$10,000 \$1,000 \$500 x x \$200 x x	\$30,000 \$10,000 \$1,000 \$500 x x \$200 x x	\$32,000 \$10,000 \$1,000 \$500 x x \$200 x x	\$35,000 \$10,000 \$1,000 \$500 x x \$200 x x
	Computer Upgrades to utilize PRO						
ArcGIS Pro Updates							
Land Link/Shark Maintainece		\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
Ascent Maintainece		\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
Orthoimagery Parcel Fabric Annotation Project LIDAR add ons	Ayres and Associates		\$179,900	\$170,000 \$35,000			
Preston's Salary		\$70,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Training in:	ONGOING(Future training topics and costs unknown)						
Enterprise Deployment			\$1,800				
Arc SDE Geodatabase			\$1,800				
Arc GIS Portal			\$1,800				
ArcPro			\$1,800				
VertiGIS Studio			\$1,200				
Studio Workflow			\$1,200				
ESRI User Conference			\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
EWUG Conference (1) x 3 staff*	\$300 + hotel						
WLIA Conferences (4) *	\$180 + hotel						
Totals			\$443,800	\$445,200	\$252,200	\$245,200	\$255,700