

WAG's to the Second Decimal – Project Managers Budget Estimates Made Easy

Presented By: EWU Facilities Team: Shawn King - AVP, Facilities & Planning Jacquelyn Early - Operations Manager Jim Moneymaker – Business Manager

Meet the Team

EWU Facilities & Planning



The Research Control of the Control





Shawn King
AVP, Facilities & Planning

Jim Moneymaker

Business Manager

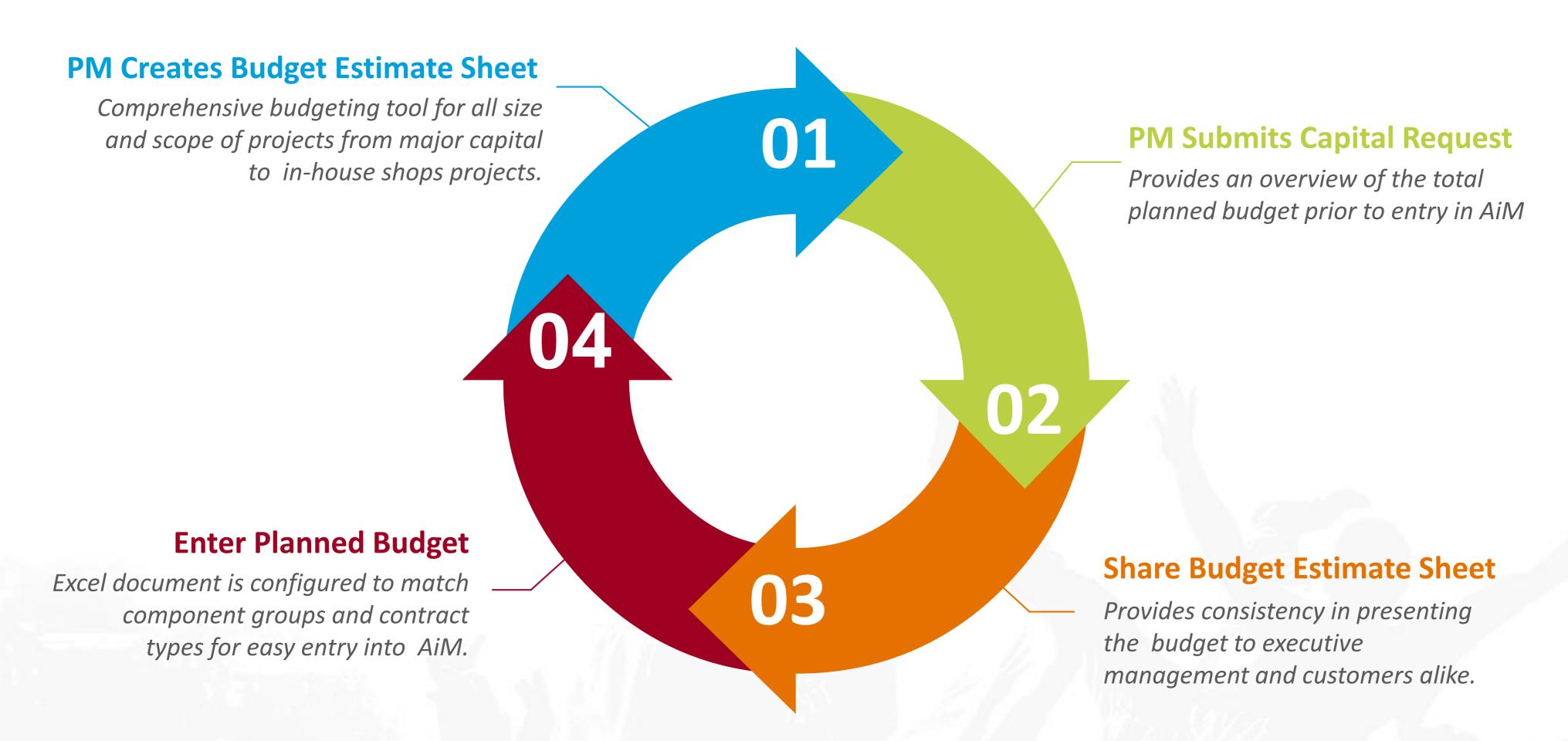
Jacquelyn Early
Operations Manager

In memory of Steve Deines
Colleague, Mentor, Friend



Budget Estimate - Full Circle

Four Easy Steps for Project Managers





EWU's Story: CPPM Configuration From the Budget Estimate Sheet

Business Processes Review for Implementation of CPPM

EWU - Before Implementation of CPPM:



Component Groups

Component Groups were determined by our business processes and the setup of the Budget Estimate Sheet.



Component Defaults

Component Default detail was added under each Component Group based on the detail of the Budget Estimate Sheet.



Consultant Contract

Component Defaults and Consultant Contract Types were mirrored to match the Budget Estimate Sheet. EWU has an unspecified consultants specialty type for non typical contracts.



Percentage of Total Project by Component Group

Cost Category subtotals are auto-calculated to show the percentage of the total estimated/budgeted project cost. Creates a benchmark for future projects.



If You Are Already Rocking CPPM:

Creating a Budget Estimate Template Sheet to match your business practices:



Component Groups

Component groups are used to create the base template main headings.



Component Defaults

Component Defaults detail is added under each Component Group to build out the template.



Consultant Contract

Component Defaults and Consultant Contract types will be the same. If using Component Group/Contract Type for multiple unspecified consultants specialties, subtotal for easy entry into AiM.



Percentage of Total Project by Component Group

Cost Category subtotals are auto-calculated to show the percentage of the total estimated/budgeted project cost. Creates a benchmark for future projects.



Budget Estimate Sheet

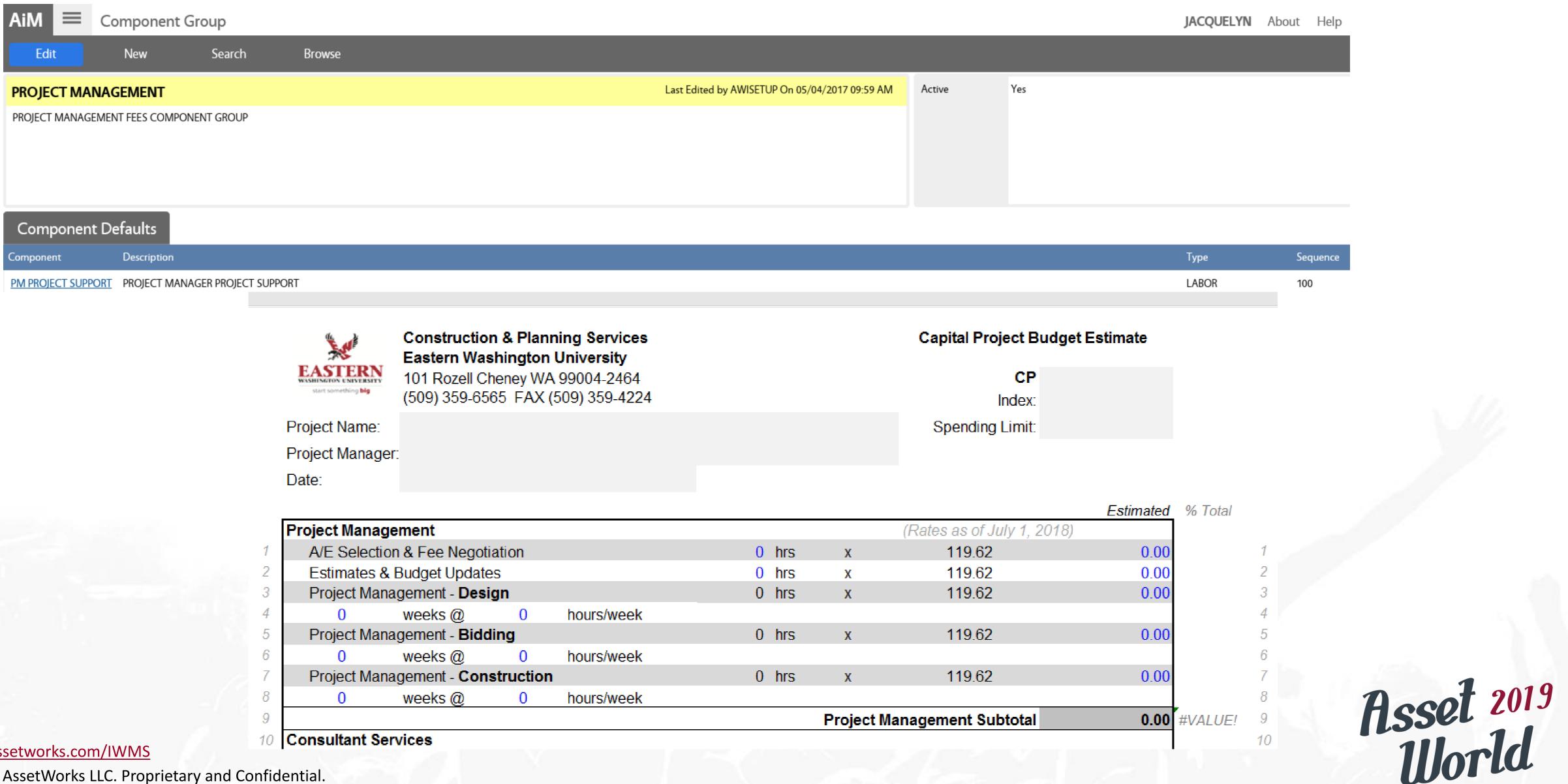
Ser.	Construction & Planning Services Eastern Washington University	Capital Project Bu	ıdget Estimate
EASTERN WASHINGTON ENTYPRIETY	101 Rozell Cheney WA 99004-2464	СР	
start something big	(509) 359-6565 FAX (509) 359-4224	Index:	
Project Name:		Spending Limit:	
Project Manage			
Date:			

								Estimated	% Total
	Project Management						(Rates as of July 1, 2018)		
1	A/E Selection & Fee Negotiation			0	hrs	Х	119.62	0.00	
2	Estimates & Budget Updates			0	hrs	x	119.62	0.00	
3	Project Management - Design			0	hrs	х	119.62	0.00	
4	0 weeks@ 0 h	ours/week							
5	Project Management - Bidding			0	hrs	Х	119.62	0.00	
6		ours/week							
7	Project Management - Construction			0	hrs	Х	119.62	0.00	
8		ours/week					110.02	5.50	
9	o weeks (a) o n	our 57WCCR				Droject M	lanagement Subtotal	0.00	#VALUE!
	Consultant Services					i iojectii	iunugement subtotui	0.00	#VALUE:
11	A/E - Basic Services							0.00	
12	A/E - Additional Services							0.00	
13	Testing & Inspection							0.00	
14	Testing & Balancing							0.00	
15	NREC Rev/Insp							0.00	
16	Commissioning							0.00	
17	Value Engineering							0.00	
18	Constructability Review							0.00	
19	Speciality Consultants								
20	FLS							0.00	
21	Geotech Survey							0.00	
22	Planning Sudy							0.00	
	Site Survey							0.00	
23	Speciality (other)							0.00	
24	Speciality Consultant Subtotal		0.00						
25						Consulta	ant Services Subtotal	0.00	#VALUE!
26	Construction Services								
27	General Construction Contract					MACC		0.00	
35	Sales tax			8.80%		Х	0.00	0.00	
36	General Construction Subtotal with tax		0.00						
37	Building Permits			1.00%		Х	0.00	0.00	_
38						Constructi	on Services Subtotal	0.00	#VALUE!

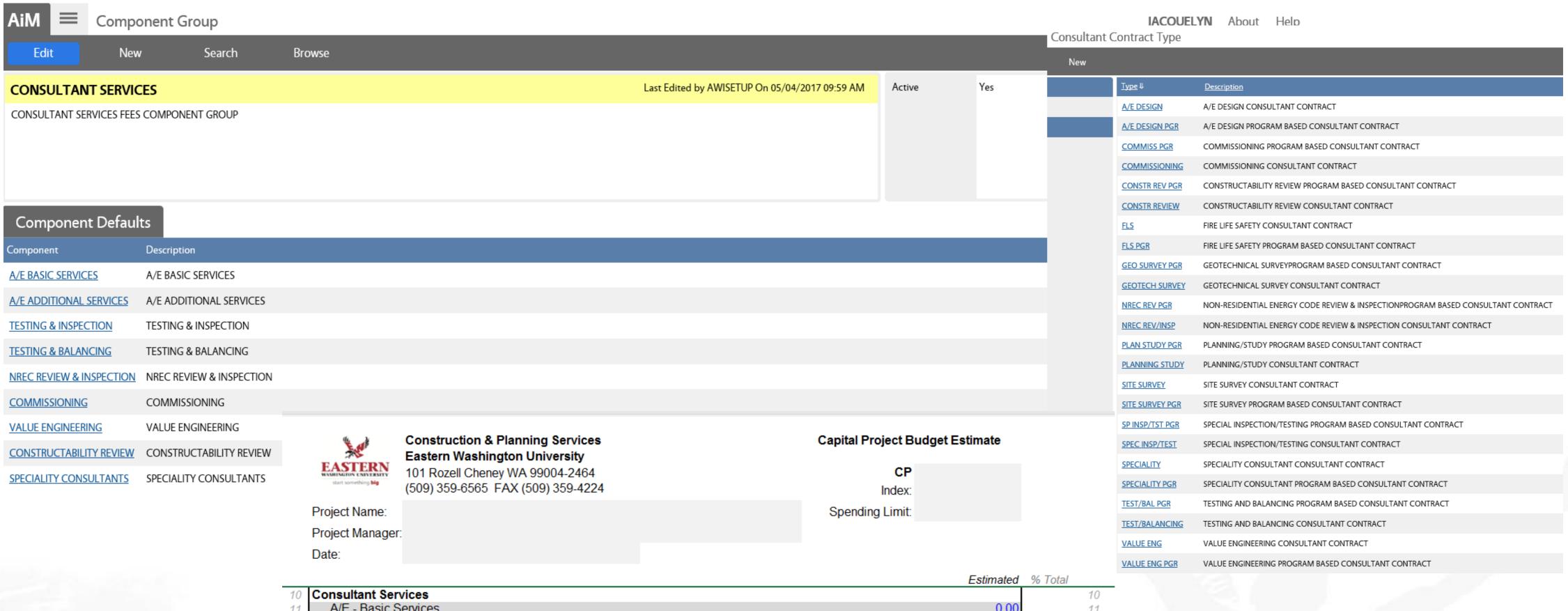
Shop Support	Material Purcha	ases		ſ	Rates as of July 1, 2018)				
010 - Access Controls	0.00	0	hrs		60.34	0.00			
020 - Automotive	0.00	ō	hrs	Х	86.36	0.00			
030 - Building Maint	0.00	ō	hrs	 X	61.58	0.00			
050 - Custodial Services	0.00	ŏ	hrs	 X	26.70	0.00			
052 - Custodial Equip	0.00	ŏ	hrs	X	26.70	0.00			
060 - Electrical	0.00	ŏ	hrs		76.33	0.00			
									
070 - Energy MGMT	0.00	0	hrs	×	64.73	0.00			
080 - EHS	0.00	0	hrs	×	63.22	0.00			
090 - Fabrication	0.00	0	hrs	×	59.96	0.00			
140 - Grounds Maint	0.00	0	hrs	X	46.80	0.00			
150 - Housing Maint	0.00	0	hrs	×	55.28	0.00			
160 - HVAC/Ř	0.00	0	hrs	8	64.73	0.00			
170 - Insulation Maint	0.00	0	hrs	8	63.00	0.00			
190 - Paint and Sign	0.00	0	hrs	×	66.05	0.00			
200 - Plant Operations	0.00	0	hrs	×	77.95	0.00			
210 - Plumbing	0.00	Ō	hrs	X	65.84	0.00			
260 - Trucking Services	0.00	Ŏ	hrs		58.02	0.00			
265 - Recycling Services	0.00	ŏ	hrs	 X	58.02	0.00			
270 - Refuse Services	0.00	ŏ	hrs	 X	58.02	0.00			
280 - OIT Services	0.00	ň	hrs		59.68	0.00			
			TIIS	X		_			
Material Purchases Subtotal	0.00			Sho	p Support Subtotal	0.00	#####		
FFE						0.00			
Furnishings_						0.00			
Equipment Fixed						0.00			
Equipment Movable						0.00			
Fire Alarms/Safety						0.00			
Telecom/Networking						0.00			
AV System						0.00			
Security/Access Control						0.00			
Custodial Equip/Supplies						0.00			
- · ·					FFE Subtotal		#####		
Miscellaneous					FFE Subtotal	0.00	****		
Miscellaneous Artwork						0.00			
Hazmat Testing						0.00			
Advertising						0.00			
Miscellaneous Materials	0.00					0.00			
Shop Material Purchases	0.00								
Purchase Orders/Materials etc.	0.00								
					Misc. Subtotal	0.00	#####		
F	roject Budget St	ubtota				0.00			
Contingency						0.00			
Total project contingency	15%		8	0.00					
E!					ntingency Subtotal	0.00			
Administrative Fees				CO	mangemoy oubtotal	0.00			
	2.0	/		0.00	(Tabal assissed by	#UALLED			
ACR (only on indexes starting with 6)	3;	· .	X	0.00	(Total project bu [®]	#VALUE!			
Administrative						0.00			
				dministr	ative Fees Subtotal	#VALUE!			
			•						
			Proi	ATOT 194	L with contingency	#VALUE!			
					Maximum Budget	0.00			
					ed Budget Balance	#VALUE!			



Project Management



Consultant Services

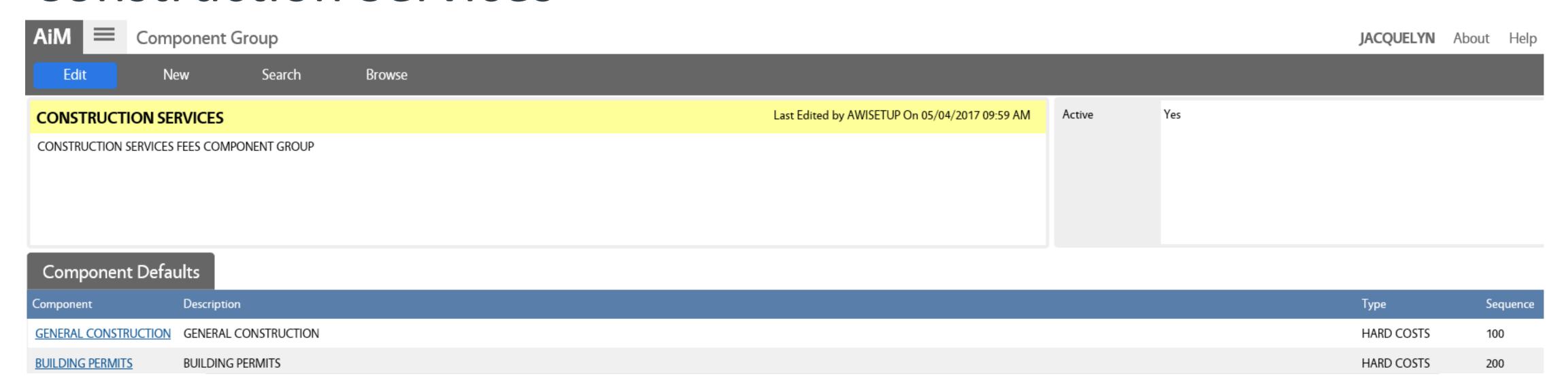


10	Consultant Services					10
11	A/E - Basic Services			0.00		11
12	A/E - Additional Services			0.00		12
13	Testing & Inspection			0.00		13
14	Testing & Balancing			0.00		14
15	NREC Rev/Insp			0.00		15
16	Commissioning			0.00		16
17	Value Engineering			0.00		17
18	Constructability Review			0.00		18
19	Speciality Consultants					19
20	FLS			0.00		20
21	Geotech Survey			0.00		21
22	Planning Sudy			0.00		22
	Site Survey			0.00		
23	Speciality (other)			0.00		23
24	Speciality Consultant Subtotal	0.00				24
25			Consultant Services Subtotal	0.00	#VALUE!	25



Construction Services

Date:

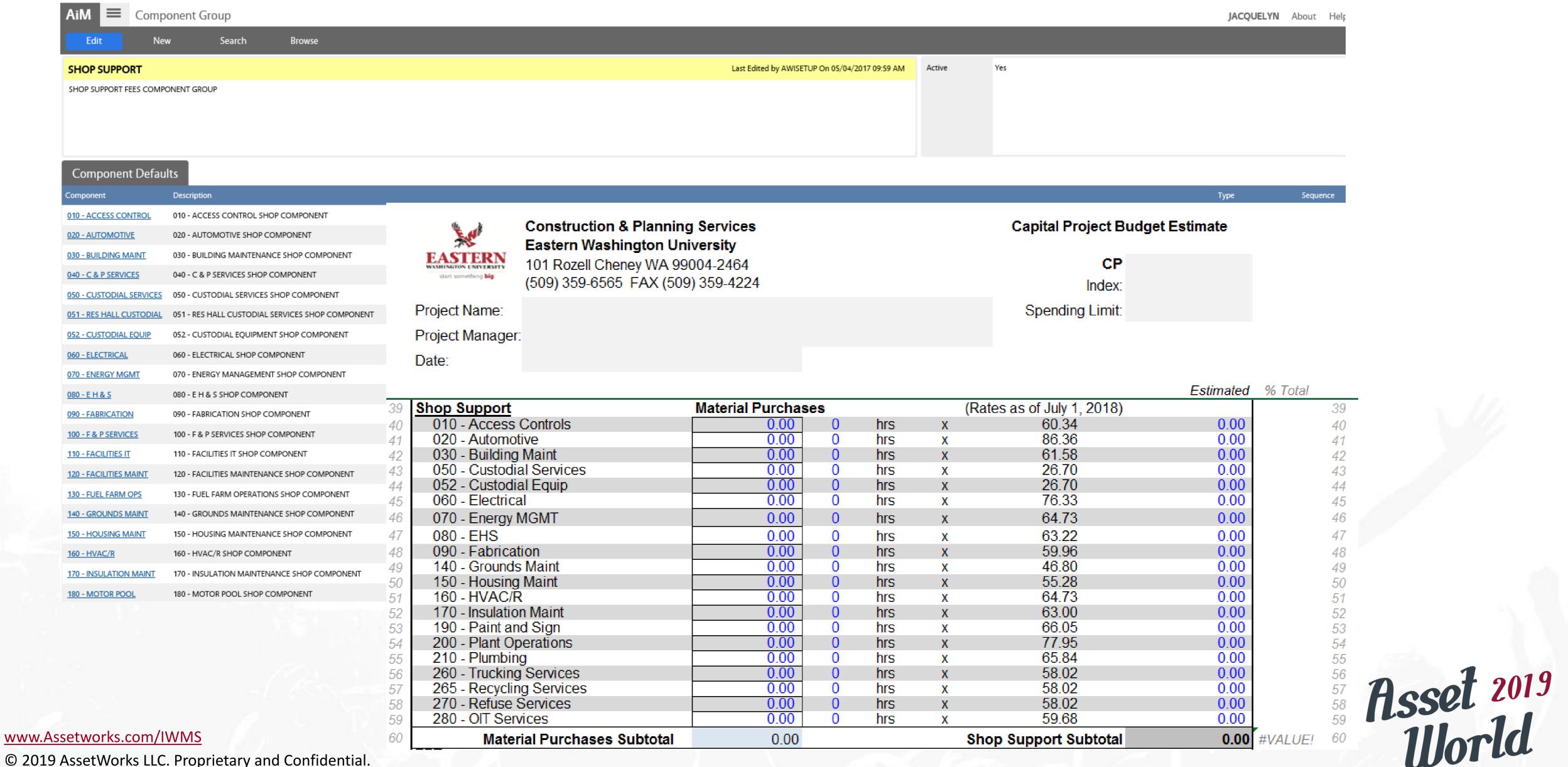


Fine	Construction & Planning Services Eastern Washington University	Capital Project B	udget Estimate
EASTERN WASHINGTON UNIVERSITY	101 Rozell Cheney WA 99004-2464	СР	
start something big	(509) 359-6565 FAX (509) 359-4224	Index:	
Project Name:		Spending Limit:	
Project Manager			

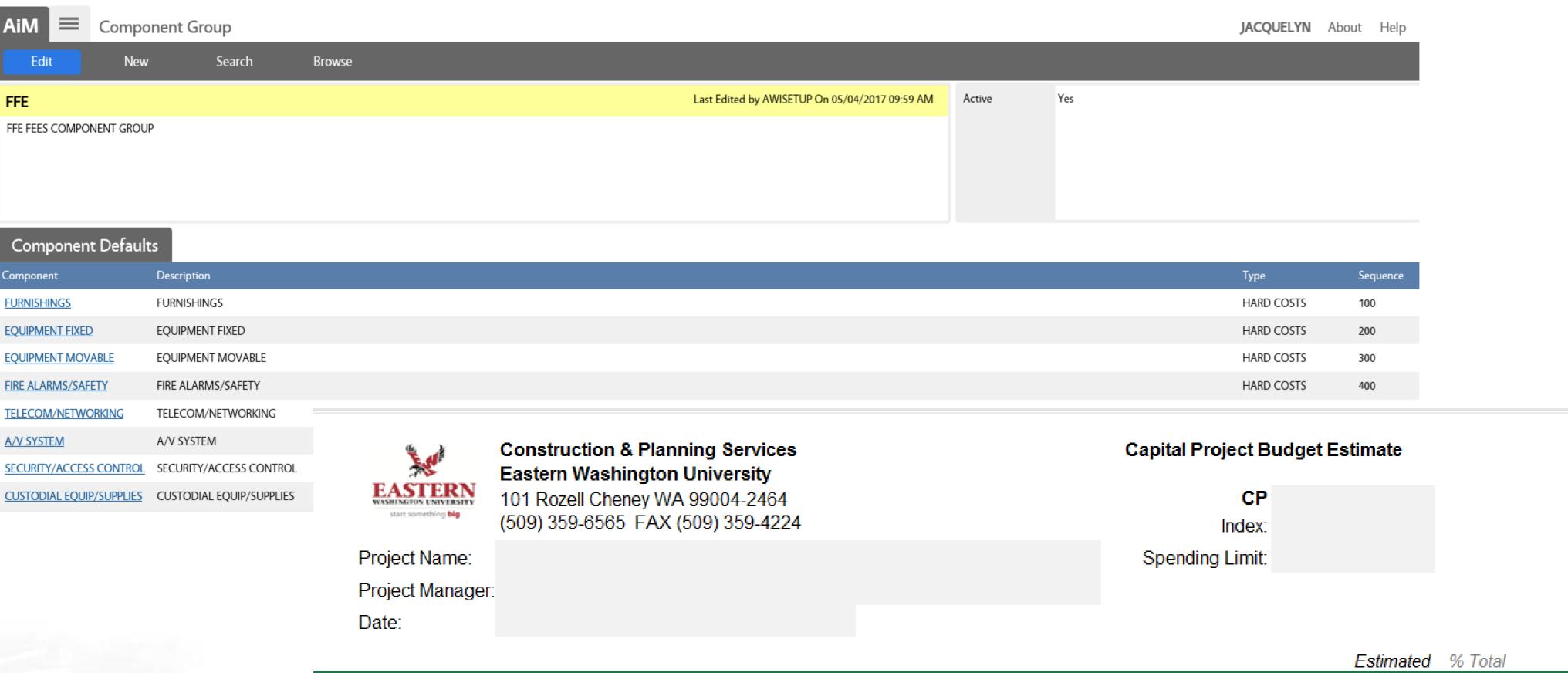
						Estimated	% Total		
26	Construction Services						1	26	
27	General Construction Contract			MACC		0.00	1	27	
35	Sales tax		8.80%	X	0.00	0.00	1	35	
36	General Construction Subtotal with tax	0.00					1	36	
37	Building Permits		1.00%	Х	0.00	0.00	1	37	
38	1		Construction Services Subtotal 0.00						



Shop Support



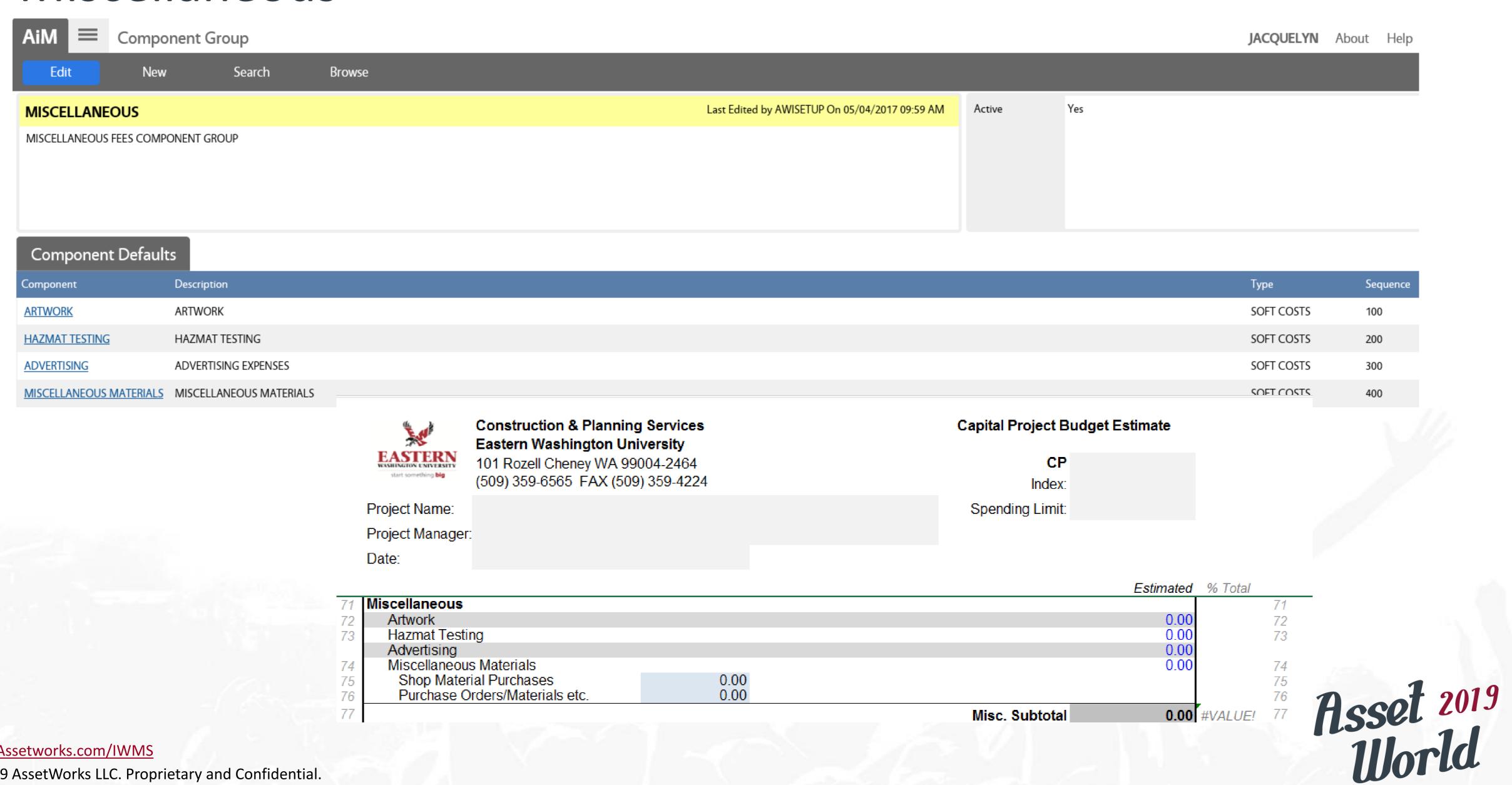




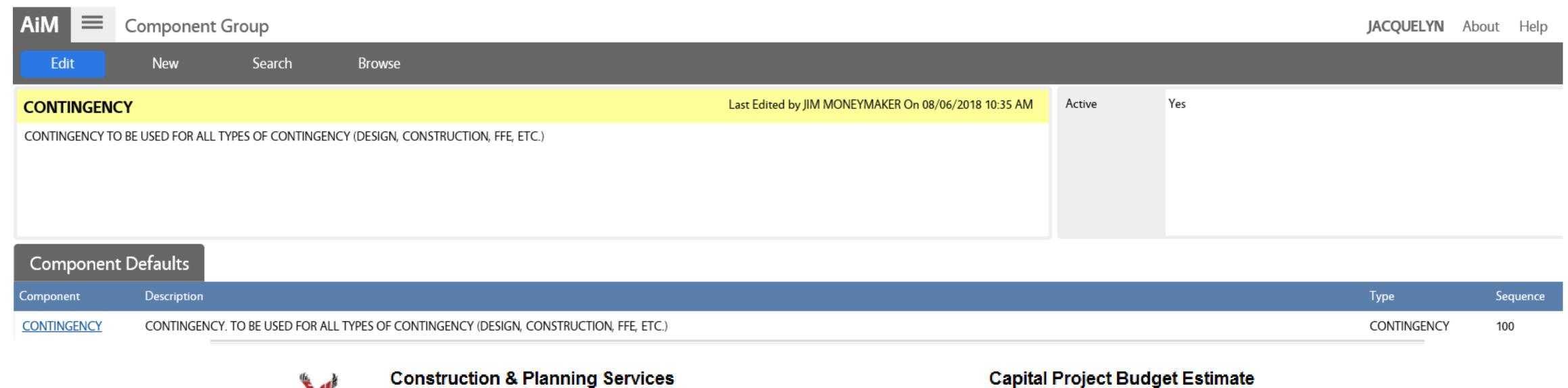
		Esumated	% TOTAL	
61	FFE			61
62	Furnishings	0.00		62
63	Equipment Fixed	0.00		63
64	Equipment Movable	0.00		64
65	Fire Alarms/Safety	0.00		65
66	Telecom/Networking	0.00		66
67	AV System	0.00		67
68	Security/Access Control	0.00		68
69	Custodial Equip/Supplies	0.00	_	69
70	FFE Subtotal	0.00	#VALUE!	70



Miscellaneous



Contingency



Fine	Construction & Planning Services Eastern Washington University
EASTERN WASHINGTON UNIVERSITY start something big	101 Rozell Cheney WA 99004-2464 (509) 359-6565 FAX (509) 359-4224

CP Index: Spending Limit:

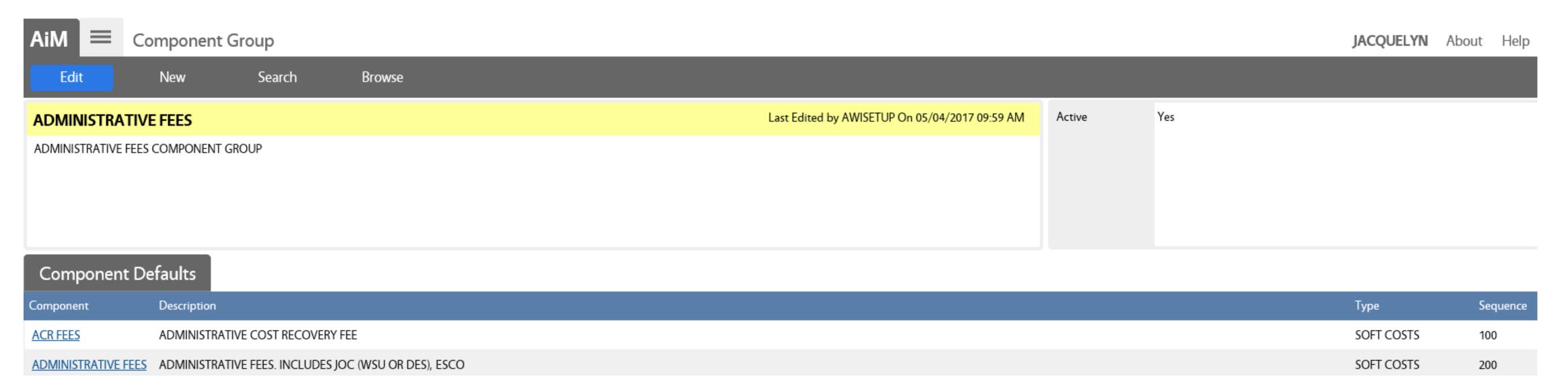
Project Name: Project Manager:

Date:

		Estimated	% Total
78	Project Budget Subtotal	0.00	78
79	Contingency		79
80	Total project contingency 15% x 0.00		80
81	Contingency Subtotal	0.00	81



Administrative Fees



Serie Constitution of the series of the seri	Construction & Planning Services Eastern Washington University	Capital Project Bu	udget Estimate
EASTERN WASHINGTON UNIVERSITY	101 Rozell Cheney WA 99004-2464	СР	
start something big	(509) 359-6565 FAX (509) 359-4224	Index:	
Project Name:		Spending Limit:	
Project Manage			
Date:			

						Estimated	% Total
82	Administrative Fees						82
83	ACR (only on indexes starting with 6)	3 %	X	0.00	(Total project budg	#VALUE!	83
84	Administrative					0.00	84
85				Admini	strative Fees Subtotal	#VALUE!	85
86							86
87			Р	roject TO	TAL with contingency	#VALUE!	87
88					Maximum Budget	0.00	88
89	last updated 04022019			Estim	ated Budget Balance	#VALUE!	89



Project Manager Steps



Step 1:

PM Creates Budget Estimate Sheet

Budget Estimate Sheet

Deines Music and Outdoor Pursuits Center

Construction & Planning Services
Eastern Washington University

CP '1051 Index: '600053

Capital Project Budget

101 Rozell Cheney WA 99004-2464 (509) 359-6565 FAX (509) 359-4224

Project Name: Deines Music and Outdoor Pursuits Center

Spending Limit: 1,400,000.00

Project Manage Steve Schmedding

Date: April 1, 2019

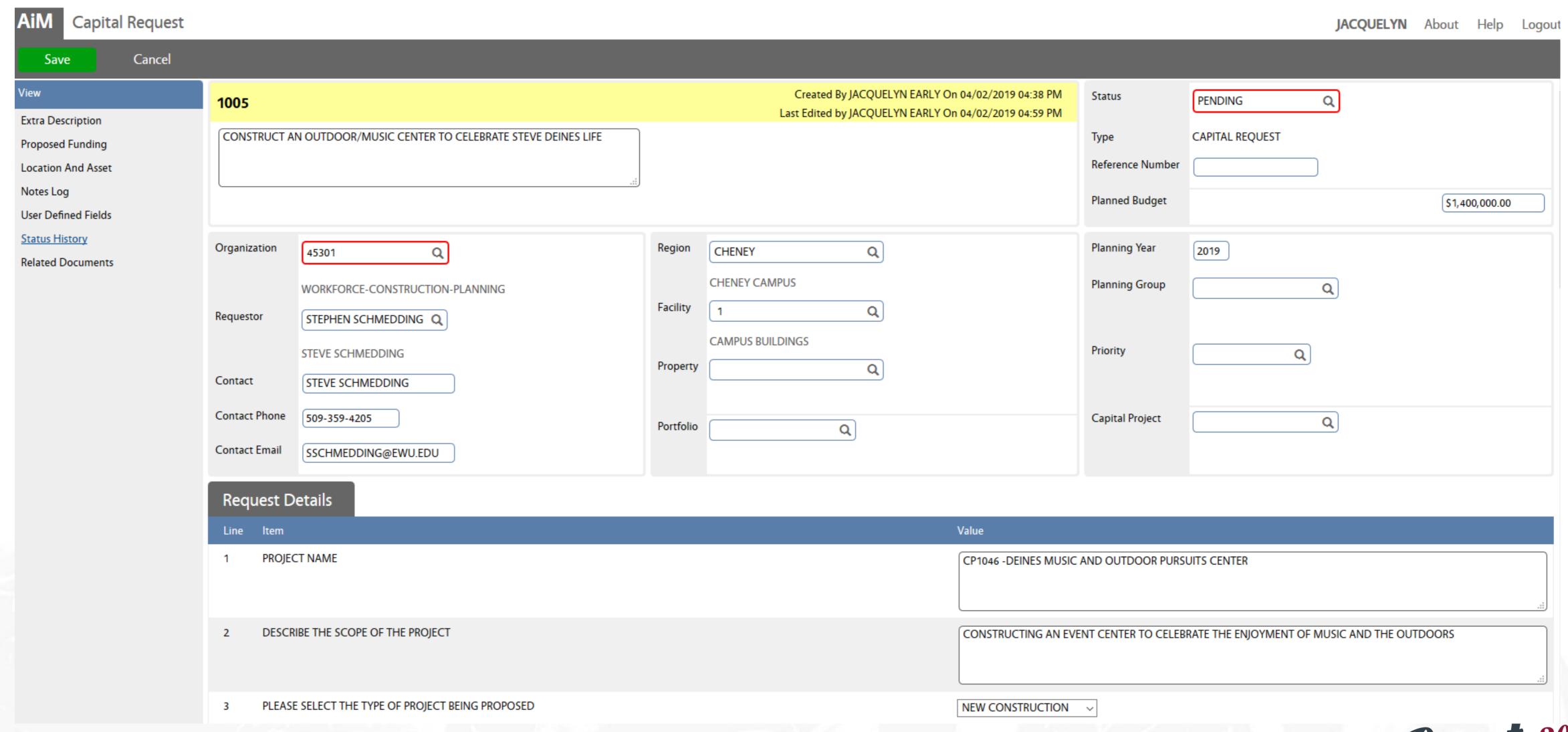
						Estimated	22 Total
Project Management					- (Rates as of July 1, 20	157	
A/E Selection & Fee Negotiation		75	hrs	8	119.62	8,971.50	
Estimates & Budget Updates		125	hrs	8	119.62	14,952.50	
Project Management - Design		300	hrs	8	119.62	35,886.00	
<u> </u>	urs/week						
Project Management - Bidding		375	hrs	×	119.62	44,857.50	
·	urs/week						
Project Management - Construction		750	hrs	×	119.62	89,715.00	
<u> </u>	urs/week						
			Proiect	: Manac	gement Subtotal	194,382.50	14.5%
Consultant Services			<u> </u>	-		-	
A/E - Basic Services						50,000.00	
A/E - Additional Services						25,000.00	
Testing & Inspection Testing & Balancing						0.00 0.00	
Testing & Balancing NREC Rev/Insp						0.00	
Commissioning						0.00	
Value Engineering						0.00	
Constructability Review						0.00	
Speciality Consultants						0.00	
FLS						0.00	
Geotech Survey Flanning Sudy						0.00 0.00	
Site Survey						0.00	
Speciality (other)						0.00	
Speciality Consultant	0.00						
			Consu	Itant S	ervices Subtotal	75,000.00	5.6%
Construction Services							
General Construction Contract			M	IACC		725,000.00	
Sales tax		8.80%		X	725,000.00	63,800.00	
General Construction Subtotal	788,800.00						
Building Permits		1.00%		X	725,000.00	7,250.00	
			Construc	stion S	ervices Subtotal	796 050 00	59.5%

			-		<u>-</u>	
Shop Support	Material Purchases			(Rates as of July 1, 2018)		
010 - Access Controls		hrs hrs	×	60.34	362.04	
020 - Automotive	0.00) hrs	×	86.36	0.00	
030 - Building Maint	700.00 7	0 hrs	8	61.58	4,310.60	
050 - Custodial Services		0 hrs	8	26.70	534.00	
052 - Custodial Equip) hrs	X	26.70	0.00	
060 - Electrical) hrs		76.33	0.00	
			×			
070 - Energy MGMT) hrs	×	64.73	0.00	
080-EHS		0 hrs	×	63.22	632.20	
090 - Fabrication	0.00) hrs	8	59.96	0.00	
140 - Grounds Maint	0.00) hrs	8	46.80	0.00	
150 - Housing Maint	0.00) hrs	*	55.28	0.00	
160 - HVAC/R		hrs	8	64.73	0.00	
170 - Insulation Maint		hrs		63.00	0.00	
			×			
190 - Paint and Sign		0 hrs	×	66.05	2,642.00	
200 - Plant Operations		hrs	×	77.95	0.00	
210 - Plumbing) hrs	×	65.84	0.00	
260 - Trucking Services	0.00 2	0 hrs	8	58.02	1,160.40	
265 - Recycling Services	0.00) hrs	×	58.02	0.00	
270 - Refuse Services	0.00) hrs	8	58.02	0.00	
280 - OIT Services		hrs	8	59.68	0.00	
		1113				0.7
Material Purchases Subtotal	1,200.00		Sh	op Support Subtotal	9,641.24	0.7%
FFE						
Furnishings					50,000.00	
Equipment Fixed					0.00	
Equipment Movable					0.00	
Fire Alarms/Safety					0.00	
Telecom/Networking					0.00	
AV System					0.00	
Security/Access Control					0.00	
Custodial Equip/Supplies					0.00	
·				FFE Subtotal	50,000.00	3.7%
Miscellaneous						
Artwork					0.00	
Hazmat Testing					500.00	
Advertising					90.00	
Miscellaneous Materials						
	1000 00				3,523.00	
Shop Material Purchases	1,200.00					
Purchase Orders/Materials etc.	2,323.00					
`				Misc. Subtotal	4,113.00	0.3%
	Project Budget Subto	otal				
·	Project Budget Subto	otal			1,129,186.74	
Contingency		otal			1,129,186.74	
	Project Budget Subto	otal ×	1,129,186.7			
Contingency				74 ontingency Subtotal	<i>1,123,186.74</i> 169,378.01	
Contingency						
Contingency Total project contingency Administrative Fees	15%	х	С	ontingency Subtotal	169,378.01	
Contingency Total project contingency Administrative Fees ACR (only on indexes starting with 6)			С		169,378.01 38,956.94	
Contingency Total project contingency Administrative Fees ACR (anly an indexes starting with 6) Administrative	15%	х	С	ontingency Subtotal	169,378.01	
Contingency Total project contingency Administrative Fees ACR (only on indexes starting with 6)	15%	х	C 1,298,564.	ontingency Subtotal	169,378.01 38,956.94	
Contingency Total project contingency Administrative Fees ACR (anly an indexes starting with 6) Administrative	15%	х	C 1,298,564.	ontingency Subtotal 75 (Total project budg	169,378.01 38,956.94 0.00	
Contingency Total project contingency Administrative Fees ACR (anily on indexes starting with 6) Administrative	15%	×	C 1,298,564. Adminis t	ontingency Subtotal 75 (Total project budg	169,378.01 38,956.94 0.00 38,956.94	
Contingency Total project contingency Administrative Fees ACR (anly an indexes starting with 6) Administrative	15%	×	C 1,298,564. Adminis t	ontingency Subtotal 75 (Total project budg	169,378.01 38,956.94 0.00	
Contingency Total project contingency Administrative Fees ACR (anily on indexes starting with 6) Administrative	15%	×	C 1,298,564. Adminis t	ontingency Subtotal 75 (Total project budg rative Fees Subtotal AL with contingency	169,378.01 38,956.94 0.00 38,956.94 1,337,521.69	
Contingency Total project contingency Administrative Fees ACR (anily on indexes starting with 6) Administrative	15%	×	C 1,298,564. Administ oject TOT	ontingency Subtotal 75 (Total project budg	169,378.01 38,956.94 0.00 38,956.94	



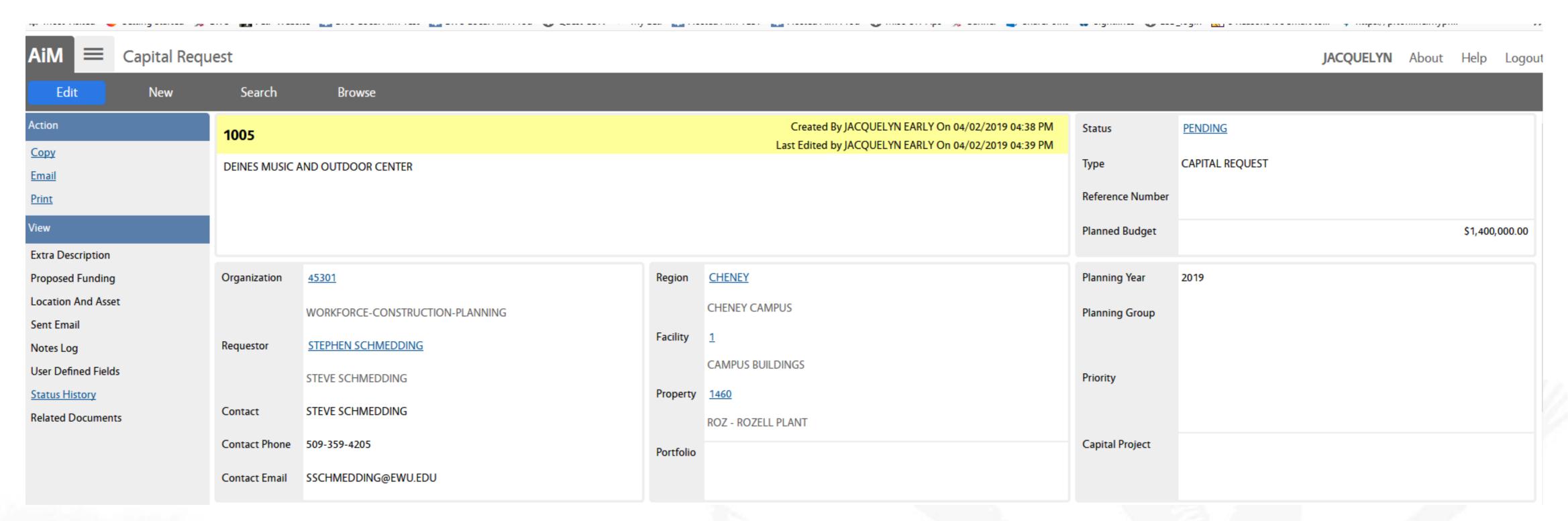
Step 2: PM Enters Capital Project Request

Capital Request



Capital Request

Budget Estimate Sheet provides project information and Budget Total





Step 3:

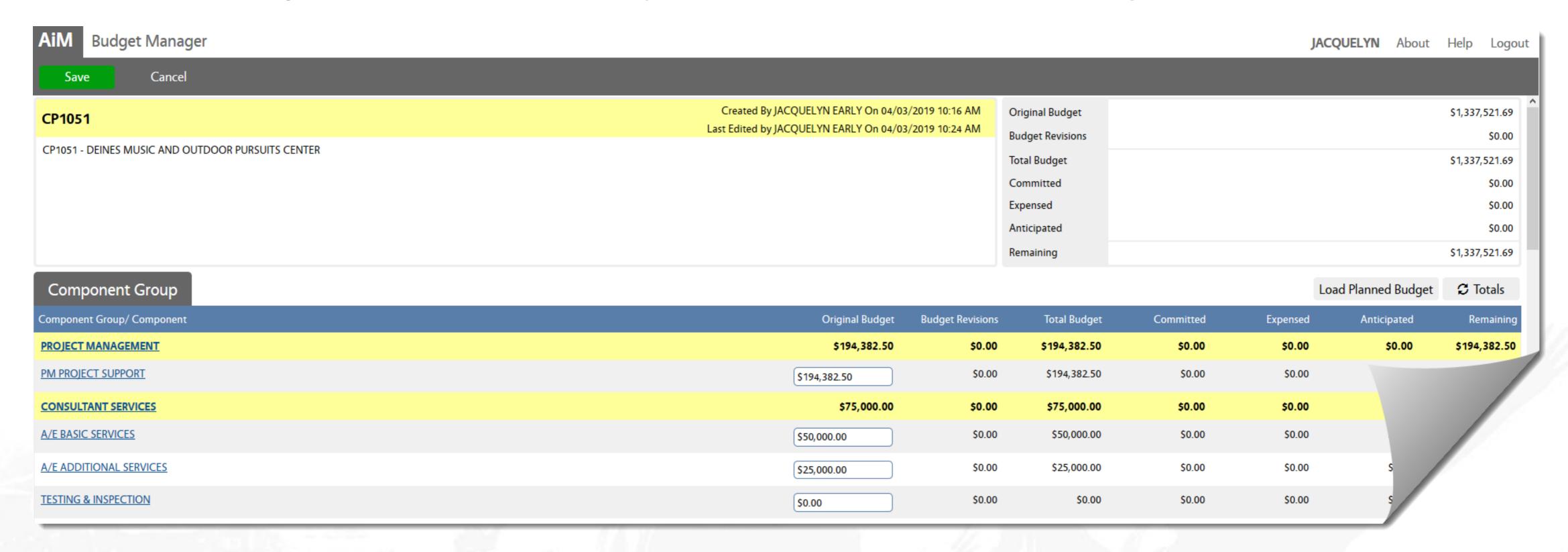
- Review/Approval of Project Budget
- Capital Request is Approved
- Capital Project is Created

Step 4:

 Project Manager Loads the Planned Budget

Project Manager next steps:

- Planned Budget Forecast total estimated/budgeted project cost category subtotals are added.
- Planned Budget totals are reviewed, final edits made and Planned Budget is loaded.







A Photo Tribute to Our Time with Steve

We spent a lot of time in this room learning from the Master

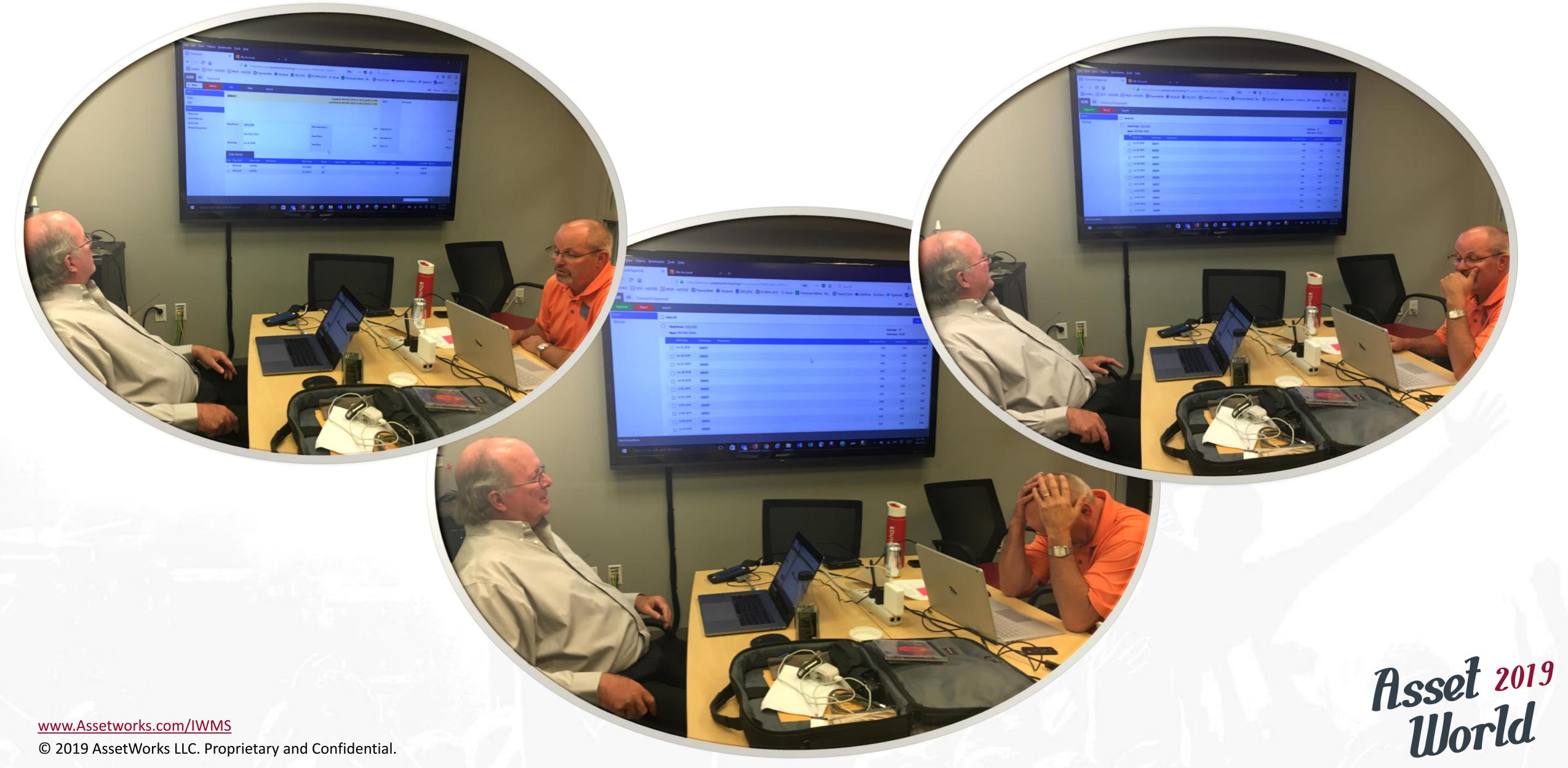
• PICNIC Errors – Steve could always find the humor in whatever happened.







Always the teacher, he would let us figure things out for ourselves...



No matter how many times or how long it took – he had a special way of saying a thousand words with a look or that quirky sideways smile.







Thank You!



Facilities & Planning

1115 Cedar ST

101 Rozell

Cheney, WA 99004

https://sites.ewu.edu/facilities/