



Great Rivers Greenway



Patrick Owens, PMP

Kevin Corwin, PE, PLS, PMP

11/22/2019

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE
SCHOOL OF BUSINESS

Project Managers



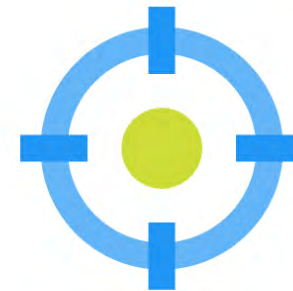
GUIDE

EFFICIENCY

INSIGHT

PREDICTABILITY

TRUST



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SCHOOL OF BUSINESS

OUR GUIDE



 **Sciforma**

Project & Portfolio Management Software



 **Project
Management
Institute.**



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THE GUIDE

THE RESULTS

KEY APPROACHES

THE BACKPACK

GRG CAPITAL PROJECTS

Great Rivers Greenway

AM:PM
(((((())))))

Patrick Owens,PMP

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11/22/2019

SOUTHERN ILLINOIS UNIVERSITY
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THE BACKPACK

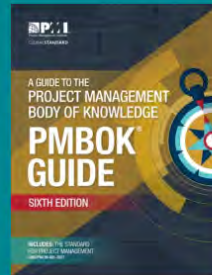


COST

TIME

QUALITY

SCOPE



RISK

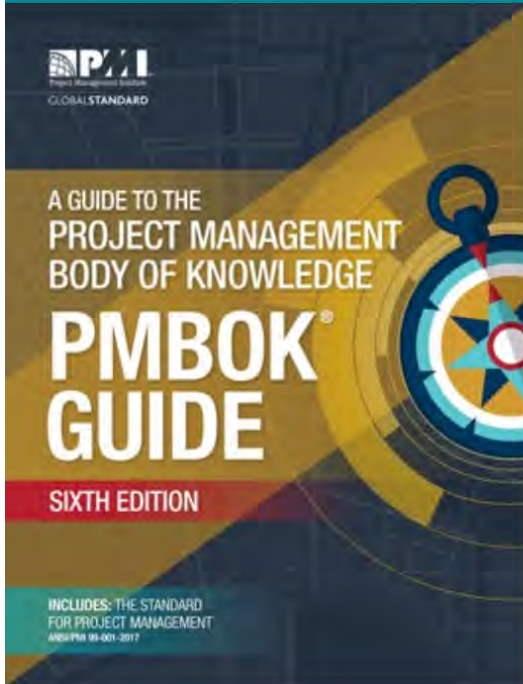
COMMUNICATION

PROCUREMENT

RESOURCES

STAKEHOLDERS

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2 Key Questions:

What will this Project accomplish?

What's needed to accomplish this Project?

SCOPE

6 Stages (4 Key):

Chartering Stage

1. Pre-Design/"Planning" Stage

2. Site Control Stage

3. Design Stage

4. Build Stage

Sustain Stage



Project Center - Project Costs GRG - Breakdown By Status and Breakdown By Type

Forecast: \$235,250.00 (6.3%)
 Actual: \$761,521.80 (20.6%)
 Committed: \$2,695,035.75 (73.0%)

Breakdown By Type:

Category	Amount
Board Approved Contingency	\$924.16
CA	\$139,100.00
CM - Build Services	\$305,150.00
Community/Stakeholder Engagement	\$7,000.00
Construction	\$2,177,890.00
Design Consulting	\$425,980.00
General	\$0.00
Materials Testing	\$30,081.60
Planning	\$274,021.79
Utilities	\$113,850.00

Mississippi: Katherine Ward Burg Garden (Sub Project Code: 402)

Name	Type	Associated Cost Centers	Start Date	Amount	2016	2017	2018	2019	2020
▼ Planning			3/1/16	\$475,024.03	\$263,390.31	\$211,633.72	\$0.00		
	Planning	777P-GRG 3/16th,888P-GRG CAR	1/22/16	\$274,021.79	\$263,390.31	-\$10,631.48	\$0.00		
	Design Consulting	777P-GRG 3/16th	5/31/17	\$201,002.24		\$201,002.24			
▼ Design			3/23/17	\$224,977.76		\$0.00	\$219,332.26	\$5,645.50	
	Design Consulting	000P-GRG 1/10th	4/18/17	\$224,977.76		\$0.00	\$219,332.26	\$5,645.50	
▼ Site Control			7/20/17	\$33,850.00			\$0.00	\$33,850.00	
	Utilities	000C-GRG 1/10th,000P-GRG 1/10th	8/20/18	\$33,850.00			\$0.00	\$33,850.00	
▼ Build			3/5/19	\$2,957,955.76			\$18,740.00		
	CM - Build Services	000P-GRG 1/10th	4/18/18	\$305,150.00			\$0.00		
	CA	000P-GRG 1/10th	7/27/18	\$139,100.00			\$18,740.00		

Project Center | Search all categories | US | GRG Admin

My Projects | Project Center | Project Scheduler | Project Plan | Project Resources | Project Costs GRG | Project Tracking | Project Work Items | Project Dashboard | Project Settings

Project | Definition | Scorecard | Engagement | Flash Report | Overview | Lessons Learned | Betterment | Project Mapping

Filter

- 007 Regional: Metrics
- 308D Chouteau: 20th Street Co...
- 406 Meramec: Route 66 State...
- 606A Centennial: I-70 to Ruth P...
- 725C Missouri: Monarch and Bo...
- 725D Deer Creek: Deer Creek P...
- 732a Trestle Repairs
- 732b I-44 Bridge Repairs
- 737X Deer Creek: Stormwater R...
- 887A Mississippi: Kiener Plaza ...
- 118 Gravois: Orlando's to Hoff...
- 118A Gravois: Hoffmeister Ave...
- 256 River Des Peres: Shrewsb...
- 286 Maline: Bridges of Bella F...
- 305 Chouteau: Boyle Ave to S...
- 370 Missouri River: 370 Bridge...
- 402 Mississippi: Katherine War...
- 603A Centennial: I-70 and Del...
- 725A Centennial: Improvements...
- 87A St. Vincent: Trojan to Esaki...
- 235 River Des Peres: Alabama...
- 187D St. Vincent: St. Charles Ro...

Legend Details Info

Greenways:

ID	0011801
Name	Gravois: Hoffmeister Ave. to River des Peres Greenway
Greenway Name	Gravois
Sub Project Code	118A
Location Code	4
Jurisdiction	St. Louis City and C
State	Build
Internal Status	Construction
External Status	Coming Soon
Manager 1	Boring, Lonny
Manager 2	Gutierrez, Angelica
Miles	1.58
Website	More info
Planning Start	10/21/2016
Build Finish	05/13/2020
Planning Costs	487.22
Site Control Costs	95,000.00
Design Costs	14,900.00
Build Costs	13,096,613.68
Total Project Budget	13,370,829.70
Total Project Costs	13,549,663.22

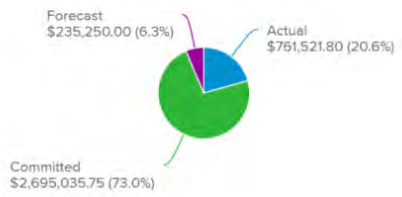


"I'm the Map!"

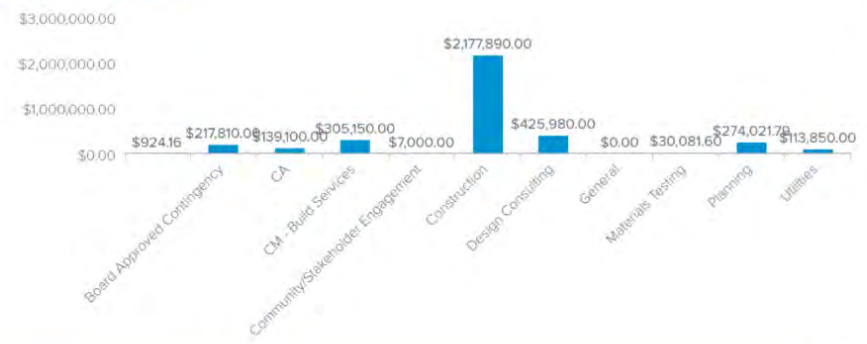
COSTS



Breakdown By Status



Breakdown By Type



Mississippi: Katherine Ward Burg Garden (Sub Project Code: 402)									
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▼ Planning			3/1/16	\$475,024.03	\$263,390.31	\$211,633.72	\$0.00		
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	Design Consulting	777P-GRG 3/16th	5/31/17	\$201,002.24		\$201,002.24			
▼ Design			3/23/17	\$224,977.76		\$0.00	\$219,332.26	\$5,645.50	
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	Utilities	000C-GRG 1/10th,000P-GRG 1/10th	8/20/18	\$33,850.00			\$0.00	\$33,850.00	
▼ Build			3/5/19	\$2,957,955.76			\$18,740.00	\$2,071,605.76	\$867,610.00
	CM - Build Services	000P-GRG 1/10th	4/18/18	\$305,150.00			\$0.00	\$310,000.00	\$65,150.00
	CA	000P-GRG 1/10th	7/27/18	\$139,100.00			\$18,740.00		

SCHEDULE



Diego

Portfolio US GRG Admin

Search all categories

Ranking | Portfolio Simulation | Capacity Planning | **Portfolio Dashboards GRG** | Definition (Administration/Cost Items/Identification)

Construction+Contingency | Cost Centers | Open Risks | Steps Due | Promote Roadmap | Sustain Roadmap | Performance

21 Planned to Start | 39 Started | 61 Planned to Complete | 5 Completed | 59 Budgeted

Chartered Projects | CIP Projects | Milestones | Project Manager

Key Facts

- 70 Published Projects
- 0 Potential Projects

Portfolio Plan

Menu	Budget...	Name	Activity Cost	Continge...	Duration	Start	Finish	Sched...
▼		187A - St. Vincent: Troj...			1,710.00d	2/10/15	9/27/21	
⚙	✓	Project Charter	\$0.00	✓	20.00d	2/10/15	3/9/15	🚩
⚙	✓	Site Control	\$82,889.00	✓	902.00d	10/4/16	4/15/20	🚩
⚙	✓	Design	\$431,435.00	✓	1,339.00d	2/10/15	4/24/20	🚩
⚙	✓	Build	\$3,791,775.00	✓	311.00d	4/27/20	7/5/21	🚩
⚙	✓	Sustain	\$0.00	✓	80.00d	6/8/21	9/27/21	🚩
▼		605A - Centennial: Ch...			689.00d	3/28/19	11/26/21	
⚙	✓	Project Charter	\$0.00	✓	43.00d	3/28/19	5/28/19	🚩
⚙	✓	Planning	\$0.00	✓	20.00d	5/29/19	6/25/19	🚩
⚙	✓	Site Control	\$50,000.00	✓	180.00d	9/30/19	6/12/20	🚩
⚙	✓	Design	\$157,922.29	✓	296.00d	6/26/19	8/21/20	🚩
⚙	✓	Build	\$350,000.00	✓	270.00d	8/24/20	9/3/21	🚩
⚙	✓	Sustain	\$0.00	✓	80.00d	8/9/21	11/26/21	🚩
▼		599A - Centennial: W...			1,181.75d	1/29/18	8/24/22	

018 2019 2020
018 Jan 2019 Apr 2019 Jul 2019 Oct 2019 Jan 2020 Apr 2020 Jul 2020

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QUALITY

The screenshot shows a project management software interface. At the top, there is a search bar with the text "All Search all categories" and a user profile icon labeled "GRG Admin". Below this is a navigation menu with items like "Project Plan", "Project Resources", "Project Costs GRG", "Project Tracking", "Project Work Items", "Project Dashboard", and "Project Settings". The main area is divided into two parts: a table on the left and a Gantt chart on the right. The table has columns for "Menu Hel...", "#", "WBS", "Steps", "Name", "Duration", "Start...", "Start", "Finish", and "Predecessor". A red arrow points to the "Steps" column. The Gantt chart shows a timeline from October 2019 to April 2020, with tasks like "Design" and "Design Promote" plotted.

Menu Hel...	#	WBS	Steps	Name	Duration	Start...	Start	Finish	Predecessor
	1108	4		Design	298.00d		11/5/19	1/1/21	1081 FS
	1110	4.2		Design Promote	95.00d		11/5/19	3/25/20	

New

Name	Started	Finished
<input type="checkbox"/> Verification of all Bid Items for Quantity and Payment Basis	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Technical Review that Project Plans meet GRG and other applicable standards	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Technical Review of Project Specifications	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Wayfinding and other Signage Packages have been approved by the Promote Team	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Legal Review of Project Bidding, Performance, and Contract Conditions (if modified from standards)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Build Team SPP approval (verify location, type, direction, footing, content (mileage, destinations, etc.), & site control needs)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Promote Team and Sustain Team SPP approval	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sustain Team review of PS&E and participation in field check	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Partner Plan Approvals/Adoptions (documented in project folder)	<input type="checkbox"/>	<input type="checkbox"/>

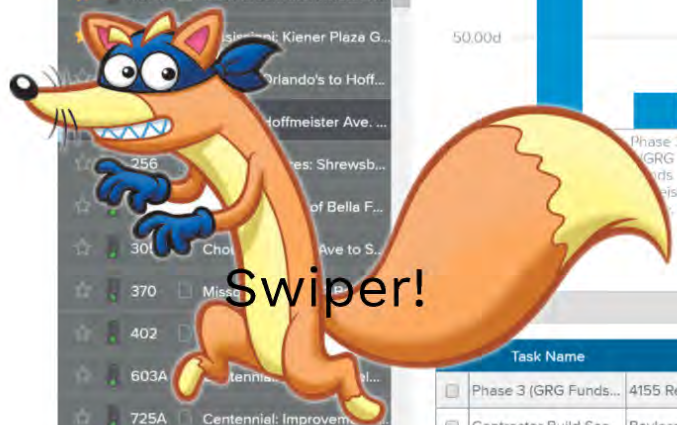


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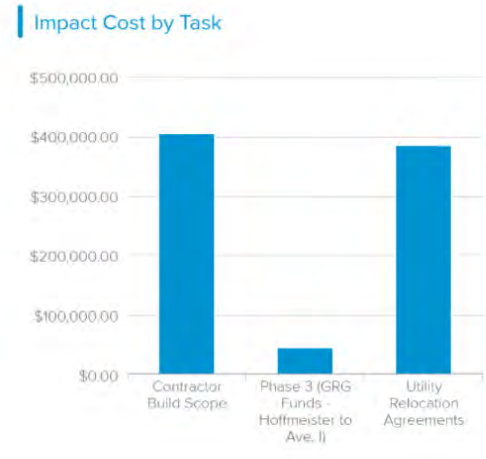
RISK

Risks Simulation Scenarios Schedule Impact

- ★ 606A Centennial: I-170 to Ruth P...
- ★ 725C Missouri: Monarch and Bo...
- ★ 725D Deer Creek: Deer Creek P...
- ★ 732a Trestle Repairs
- ★ 732b I-44 Bridge Repairs
- ★ 737X Deer Creek: Stormwater R...
- ★ 256 ... Kiener Plaza G...
- ★ 301 ... Orlando's to Hoff...
- ★ 370 ... Hoffmeister Ave. ...
- ★ 402 ... Shrewsb...
- ★ 603A ... of Bella F...
- ★ 187A ... Ave to S...
- ★ 235 ... Mis...
- ★ 187D ... St. Vincent: St. Charles Ro...



Swiper!



Key Facts

- 15**
Number of Open Risks
- \$833,000.00**
Potential Cost Impact
- \$142,040.00**
Weighted Cost Impact
- 14.65%**
% Remaining Contingencies @ Risk
- \$969,258.35 (69.54%)**
Contingencies \$ Remaining (% Remaining)
- \$363,282.63 (30.46%)**
Contingencies \$ Used (% Used)

Task Name	Name	Description	Impa...	Impact Cost	Proba...	Prorated Imp...	Type	Follo...	Over ...	Contingency Plan	Workfl...	Menu
Phase 3 (GRG Funds...	4155 Retaining Wall	Unsuitable soils in	20.0...	\$45,000.00	2%	\$900.00	Low	10/8...	09/24/19 - No settlement is	Open		
Contractor Build Sco...	Bayless Ave Unforeseen Condition	While drilling the	0.00d	\$10,000.00	80%	\$8,000.00	Low	10/8...	09/10/19 - The item was	Open		
Contractor Build Sco...	Bayless Bridge Pier Coring	Cross-sonic	10.0...	\$35,000.00	30%	\$10,500.00	Low	10/8...	09/24/19 - Comments were	Open		
Utility Relocation Agr...	City of St. Louis Waterline Relocat...	May be	20.0...	\$30,000.00	5%	\$1,500.00	Low	10/8...	09/10/19 -			
Contractor Build Sco...	Excessive Rubble/Rip-Rap in Rive...	Excessive depth	10.0...	\$15,000.00	10%	\$1,500.00	Low	10/8...	09/10/19 -			



PROCUREMENT

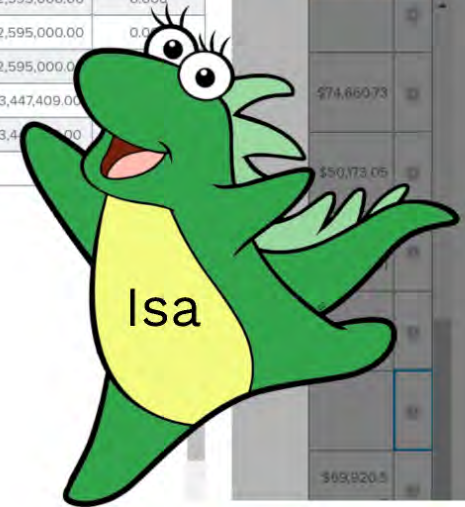
The screenshot displays a procurement system interface. At the top, there is a search bar and navigation tabs for Transaction Info, Procurement Form, Dec Routing Form, and Invoice Form. Below this is a table listing contracts with columns for Contract Name, Board Resolution, Board Authorized Amount, Current Contract Amount, Contract (or Change Order) Number, Change Order Number, Executed Date, Workflow State, and Vote. A 'New' button is visible above the table.

Contract Name	Board Resolution...	Board Authorize...	Current Contract...	Contract (or Cha...	Change Order N...	Executed Date	Workflow State	Vote	Print	Menu	History
Construction Co...	2018.14	\$2,854,500.00	\$2,689,652.72	\$63,942.57	2	10/26/18	CEO Approved				
Construction Co...	2018.14	\$2,854,500.00	\$2,595,000.00	\$94,652.72	1	6/21/18	CEO Approved				
Construction Co...	2018.14	\$2,854,500.00		\$2,595,000.00	0	2/27/18	CEO Approved				

User	Workflow to State	Workflow Comments	Date	Name	Amount	Duration
Behrms, Beth	CEO Approved		2/27/18 4:30 PM	Construction Contract	\$2,595,000.00	0.00d
Behrms, Beth	CEO Review		2/27/18 10:34 A...	Construction Contract	\$2,595,000.00	0.00d
Owens, Patrick	PM Approved	Back atcha!	2/23/18 4:03 PM	Construction Contract	\$2,595,000.00	0.00d
Admin, GRG	Revise	Pat, there's just a few things that still	2/23/18 3:31 PM	Construction Contract	\$3,447,409.00	0.00d
Owens, Patrick	PM Approved	The contract is ready for execution.	2/23/18 2:12 PM	Construction Contract	\$3,447,409.00	0.00d


```

    graph LR
      New[New] --> PM[PM Approv...]
      PM --> Portfolio[Portfolio M...]
      Portfolio --> Revise[Revise]
      Portfolio --> CEO[CEO Review]
      CEO --> CEOAppr[CEO Appr...]
      PM --> Canceled[Canceled]
      CEOAppr -.-> CEOAppr
  
```



RESOURCES



Baby Jaguar

US • GRG Admin

Capacity Planning Portfolio Dashboards GRG Definition (Administration/Cost Items/Identification)

Score Cards Scored-Phase-Costs Metrics Activity/Phase Descriptions Lessons Learned Settlements

9/1/19 - 2/29/20

Interval: Month 6

Edit Project Managers Update PM Allocations - All Projects Update PM Allocations - Single Project Update PM Allocations by Manager Export to Excel Collapse All

Pick Projects Role Project Manager

		160.00h	184.00h	144.00h	160.00h	184.00h	160.00h						
Gutierrez, Angelica		160.00h	184.00h	144.00h	160.00h	184.00h	160.00h						
Total Assigned Hours for "Gutierrez, Angelica"		104h	107h	89h	99h	100h	88h						
Percentage of Total Assigned Hours for "Gutierrez, Angelica"		65%	58%	62%	62%	54%	55%						
Owens, Patrick		160.00h	184.00h	144.00h	160.00h	184.00h	160.00h						
Total Assigned Hours for "Owens, Patrick"		90h	111h	86h	96h	108h	88h						
Percentage of Total Assigned Hours for "Owens, Patrick"		57%	60%	60%	60%	59%	55%						
Steinlage, Michael		160.00h	184.00h	144.00h	160.00h	184.00h	160.00h						
187A St. Vincent: Trojan to Eskridge													
"Steinlage, Michael"	187A	Manager 1	Project Charter	100.00%	2/10/15	3/9/15	0%						
"Steinlage, Michael"	187A	Manager 1	Site Control	68.30%	10/4/16	4/15/20	13%	21h	24h	19h	21h	24h	21h
"Steinlage, Michael"	187A	Manager 1	Design	80.81%	2/10/15	4/24/20	7%	11h	13h	10h	11h	13h	11h
"Steinlage, Michael"	187A	Manager 1	Build	0.00%	4/27/20	7/5/21	0%						
Assigned Hours for 187A - St. Vincent: Trojan to Eskridge								32h	37h	29h	32h	37h	32h
187B St. Vincent: Eskridge to Pagedale Town Center													
"Steinlage, Michael"	187B	Manager 1	Project Charter	100.00%	1/2/19	2/27/19	0%						
"Steinlage, Michael"	187B	Manager 1	Planning	33.68%	2/28/19	4/29/20	10%	16h	18h	14h	16h	18h	16h
"Steinlage, Michael"	187B	Manager 1	Site Control	0.00%	7/10/19	4/28/21	5%	8h	9h	7h	8h	9h	8h
"Steinlage, Michael"	187B	Manager 1	Design	0.00%	4/30/20	6/30/21	0%						
"Steinlage, Michael"	187B	Manager 1	Build	0.00%	7/1/21	7/13/22	0%						
Assigned Hours for 187B - St. Vincent: Eskridge to Pagedale Town Center								24h	28h	22h	24h	28h	24h
187C St. Vincent: Pagedale Town Center to St. Charles Rock Road													
"Steinlage, Michael"	187C	Manager 1	Project Charter	0.00%	11/1/19	12/17/19	2%			3h	2h		
"Steinlage, Michael"	187C	Manager 1	Planning	0.00%	12/18/19	12/31/20	1%				1h	2h	2h
"Steinlage, Michael"	187C	Manager 1	Site Control	0.00%	2/14/20	11/4/21	0%						
"Steinlage, Michael"	187C	Manager 1	Design	0.00%	1/1/21	1/20/22	0%						
"Steinlage, Michael"	187C	Manager 1	Build	0.00%	1/21/22	2/2/23	0%						

STAKEHOLDERS

Document Links

Community Profile: <https://grgstl.sharepoint.com/w/s/SharedFiles/Ebn3gJTKvVVMgNf8h8CddWgBLIJ3ykat6akTuSHyqajsVw?e=7z5frf>

Approvals

	Project Manager	Engagement Manager
Community Profile	<input type="checkbox"/>	<input type="checkbox"/>
Engagement Plan	<input type="checkbox"/>	<input type="checkbox"/>

Stakeholder Role

Stakeholder Role	Role Icon
New 2	●
City Official	▲
MoDOT LPA	■
CAC	■
Neighborhood Association	▲
Permitting	■
City Council	●

Stakeholder Group Register

Engagement Confirmation Status: ▲

Partner Name	Role	Role Icon	Activity Log	Notes
General NFP	Neighborhood Association	▲	<input checked="" type="checkbox"/>	Southwest Ferguson Neighborhood Group
General NFP	Neighborhood Association	▲	<input checked="" type="checkbox"/>	Old Ferguson West Neighbors
General Property Owner	Neighborhood Association	▲	<input checked="" type="checkbox"/>	Old Ferguson East Neighborhood Association
Department of Transportation	MoDOT LPA	■	<input checked="" type="checkbox"/>	314-453-5037
Engineers	Permitting	■	<input checked="" type="checkbox"/>	Section 404/401 Nationwide Permit: pedestrian bridge remov...
Department of Transportation	Permitting	■	<input checked="" type="checkbox"/>	
Missouri Sewer District	Permitting	■	<input checked="" type="checkbox"/>	Design approval for drainage and runoff treatment
Missouri Department of Conservation	Permitting	■	<input checked="" type="checkbox"/>	Review Heritage Database for threatened and endangered s...
Missouri Department of Natural Resources & Missouri ...	Permitting	■	<input checked="" type="checkbox"/>	Inspections relevant to brid
Norfolk Southern	Permitting	■	<input checked="" type="checkbox"/>	
City Official, City Council		***	<input checked="" type="checkbox"/>	



Fiesta Trio



COMMUNICATION

- Project
- Filter
- 118 Gravois: Orlando's to Hoff...
 - 118A Gravois: Hoffmeister Ave. ...
 - 256 River Des Peres: Shrewsb...
 - 286 Maline: Bridges of Bella F...
 - 305 Chouteau: Boyle Ave to S...
 - 370 Missouri River: 370 Bridge...
 - 402 Mississippi: Katherine War...

Definition	Scorecard	Engagement	Flash Report	Overview	Lessons Learned	Betterment	Project Mapping			
Design		9/13/19	4/30/20	160.00d	-5.00d	19.38%	0.00%	✓	\$0.00	\$0.00
Promote Bidding Coordination Mtg		1/24/20	1/24/20	0.00d	35.00d	0.00%	0.00%	✓	\$0.00	\$0.00
[MTG] Mayor Carter #2		12/2/19	12/2/19	0.00d	41.00d	0.00%	0.00%	✓	\$0.00	\$0.00
Field Check 95%/Pre-Final Plans		12/26/19	12/26/19	0.00d	-5.00d	0.00%	0.00%	✓	\$0.00	\$0.00
Bid Advertisement		1/30/20	1/30/20	0.00d	-5.00d	0.00%	0.00%	✓	\$0.00	\$0.00

Important Notes/Events ("Done" and "To-Do")

TO DO:

- Bi State Agreement
- MoDOT Agreement
- Plan Meeting with Mayor Carter
- Strategy for 7109 St. Charles Rock Rd. (Retaining Wall Collapsing)

DONE:

- Phone Call w Tom Montes De Oca
- Revised Renderings
- Phone Call w Matt Hoffman to prep Agreement for Metro w Project 295

Action Items ("Help Needed" and "Doing")

DOING

- Ben preparing Action for St. Louis County O&M

HELP NEEDED

Ben: Review of channelizer or reflector options.

- Confirm logistics if Bid Comes in Over the Estimate in Agreement with Todd and Matt Hoffman

FR Photo 1



FR Photo 2



FR Photo 3



THE GUIDE

THE RESULTS

KEY APPROACHES

THE BACKPACK

GRG CAPITAL PROJECTS

Great Rivers Greenway
AM:PM
 ((((()))))
Patrick Owens, PMP
Kevin Corwin, PE, PLS, PMP
11/22/2019

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KEY APPROACHES

**RISK
MANAGEMENT**

**LESSONS
LEARNED**



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RISK MANAGEMENT STRATEGIES

I - EAT

MONITORING
IN PROGRESS



I - EAT

I = Identify

E = Evaluate

A = Act

T = Track

Identify

Key Risk Phrases that raise concern (or at least an eye brow):

“We don’t know...”

“We’re unsure if...”

“Our understanding is...”

“We’ll deal with it when...”

“They said it would...”

“It should be...” (or “shouldn’t be...”)

“We’ve assumed...”

“It’ll be fine...”



Evaluate



Ask: "How scary it could be?"

Relate Risks to Scope, Time, and Costs

Work each Risk in a process

Probability is often "probably"...
(i.e. your best guess)

Risk Definition

Workflow State: Open

Name: Type: Low Probability:

Owner: Impact Cost: Impact Time:

Workflow State Vote: Open Assigned To: Follow-Up Date:

Description | Mitigation Plan | Cause | Resolution | History

During the Preliminary Plan Walk-thru, GRG staff noted that a railroad tie retaining wall was falling into the public right of way. The wall supports a front yard terrace of the residence at 7109 St. Charles Rock Rd. MoDOT is handling the ROW Acquisition activity for this segment of the greenway. GRG is concerned if the wall collapses during the construction process it may become a bigger issue for project and potentially delay the project schedule and require some additional cost.

SUBMIT

<input type="checkbox"/>	Final Site Control	Limited MoDOT ROW	12/19/18 MoDOT is	180...	\$0.00	5%	\$0.00	Low	10/3...	10/2/19 MoDOT is making
<input type="checkbox"/>	Final Site Control	O+M: Bi-State for Metro Connection	One of the	0.00d	(\$50,000.00)	5%	(\$2,500.00)	Low	10/3...	
<input type="checkbox"/>	Site Control	7109 St. Charles Rock Rd	During the	10.0...	\$10,000.00	50%	\$5,000.00	Low	10/3...	



Act

- Avoid
- Transfer
- Mitigate
- Accept
- Exploit



A Plan + An Assignment + A Date = Action

After one action, decide if more are needed

With more information, update the Evaluation

Track



$R^4 =$

Review

Risk

Register

Regularly

MONITORING IN PROGRESS

Requests
Documents

Risks
Simulation Scenarios

Risk Definition
Workflow State: Open

Name:

Owner: ✕ ☰

Workflow State Vote: Open

Type: Low

Impact Cost:

Assigned To: ☰

Probability:

Impact Time:

Follow-Up Date:

Description
Mitigation Plan
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→
SUBMIT

Item	Control	Impact	Probability	Cost	Severity	Due Date	Status	Notes
Final Site Control	Limited MoDOT ROW	\$0.00	5%	\$0.00	Low	10/3...	🚩	10/2/19 MoDOT is making
Final Site Control	O+M: BI-State for Metro Connection	(\$50,000.00)	5%	(\$2,500.00)	Low	10/3...	🚩	
Site Control	7109 St. Charles Rock Rd	\$10,000.00	50%	\$5,000.00	Low	10/3...	🚩	



MONITORING IN PROGRESS

US GRG Admin

My Projects Project Center Project Scheduler Project Plan Project Resources Project Costs GRG Project Tracking Project Work Items Project Dashboard Project Settings

Project

Filter

- 286 Maline: Bridges of Bella F...
- 305 Chouteau: Boyle Ave to S...
- 370 Missouri River: 370 Bridge...
- 402 Mississippi: Katherine War...
- 603A Centennial: I-170 and Del...
- 725A Centennial: Improvements...
- 187A St. Vincent: Trojan to Eskri...
- 235 River Des Peres: Alabama ...
- 187D St. Vincent: St. Charles Ro...
- 196 Deer Creek: Deer Creek C...
- 262 Maline: Ted Jones Trail to ...
- 295 Maline: Ted Jones Trail to ...
- 344 Meramec: I-44 Bike Ped Br...
- 599A Centennial: Watson Park t...

Task Risks Change Requests Documents

Risks Simulation Scenarios Schedule Impact

0.00d Final Site Control Site Control \$0.00 O+M Agreements Site Control

Contingencies \$ \$0.00 (0.00% Contingencies \$

Task Risks

New

Task Name	Name	Description	Impa...	Impact Cost	Proba...	Prorated Impa...	Type	Follo...	Over ...	Contingency Plan	Workfl...	Menu
O+M Agreements	Bi-State Bus Shelter	MoDOT is	0.00d	\$15,000.00	25%	\$3,750.00	Low	10/3...	🚩	10/2/19 Revisit the status of	Open	⚙️
Final Site Control	Limited MoDOT ROW	12/19/18 MoDOT is	180...	\$0.00	5%	\$0.00	Low	10/3...	🚩	10/2/19 MoDOT is making	Open	⚙️
Final Site Control	O+M: Bi-State for Metro Connection	One of the	0.00d	(\$50,000.00)	5%	(\$2,500.00)	Low	10/3...	🚩	10/2/19 After completing the	Open	⚙️
Site Control	7109 St. Charles Rock Rd	During the	10.0...	\$10,000.00	50%	\$5,000.00	Low	10/3...	🚩	10/11/19 Discuss with Lisa	Open	⚙️
Final Site Control	MoDOT Apportionment Agreeeme...	After Concept	0.00d	\$0.00	25%	\$0.00	Low	10/3...	🚩	10/10/19 - MoDOT (Tom	Open	⚙️
Consultant Planning ...	ADA Accessibility Along St. Vince...	A hill rises at the	0.00d	\$40,000.00	15%	\$6,000.00	Low	9/30...	🟢	12/18/18: Study conceptual	Closed	⚙️
Final Site Control	O+M: STL County Parks at SVP	The connection	0.00d	(\$750,000.00)	10%	(\$75,000.00)	Low	9/30...	🟢	12/18/18: Drive O&M	Closed	⚙️
Final Site Control	MODOT Agreement for Maintena...	Preliminary	0.00d	\$14,000.00	20%	\$2,800.00	Low	10/3...	🟢	12/18/18: Drive O&M	Closed	⚙️



MONITORING IN PROGRESS

My Open Risks: 3

My Open Risks								
Phase	Overdue Risk	Task / Risk	Weighted Cost	Weighted Time	Probability	Due Date	High	Low
▼ 187D - St. Vincent: St. Charles Rock Road Improvements (Owens, Patrick)								
▼ Planning	🚩	Consultant Planning Scope				7/12/19		1
⚙️	🚩	ADA Accessibility Along St. Vincent Park Entry	\$6,000.00	0.00d	15%	8/30/19		2
▶ Site Control	🚩	O+M Agreements				10/3/19		1
▶ Site Control	🚩	Final Site Control				1/15/20		5
▼ 605A - Centennial: Christy Dr. to Hackmann (Owens, Patrick)								
▼ Site Control		Site Control				10/8/20	1	
⚙️	🟢	Residential Property Owner Easements	\$0.00	72.00d	60%	11/22/19	2	
▶ Site Control		Final Site Control				10/8/20		1
▼ 599 - Centennial: 39 North Connector (Owens, Patrick)								

All Open Risks:

All Open Risks								
Phase	Overdue Risk	Task / Risk	Weighted Cost	Weighted Time	Probability	Due Date	High	Low
▼ 118A - Gravois: Hoffmeister Ave. to River des Peres Greenway (Boring, Lonny)								
▶ Site Control	🚩	Utility Relocation Agreements				7/13/18	2	2
▶ Design	🚩	Phase 3 (GRG Funds - Hoffmeister to Ave. I)				4/2/19		1
▶ Build	🚩	Build				5/13/20	1	
▶ Build	🚩	Contractor Build Scope				2/5/20		

WHAT ARE LESSONS LEARNED?

**I DON'T KNOW WHAT'S
MORE AWKWARD**



**ANSWERING DORA,
OR SITTING IN SILENCE
WHILE SHE STARES AT YOU.**

APPLICATION

HOW CAN LL 'S BE USED?

-



-



-

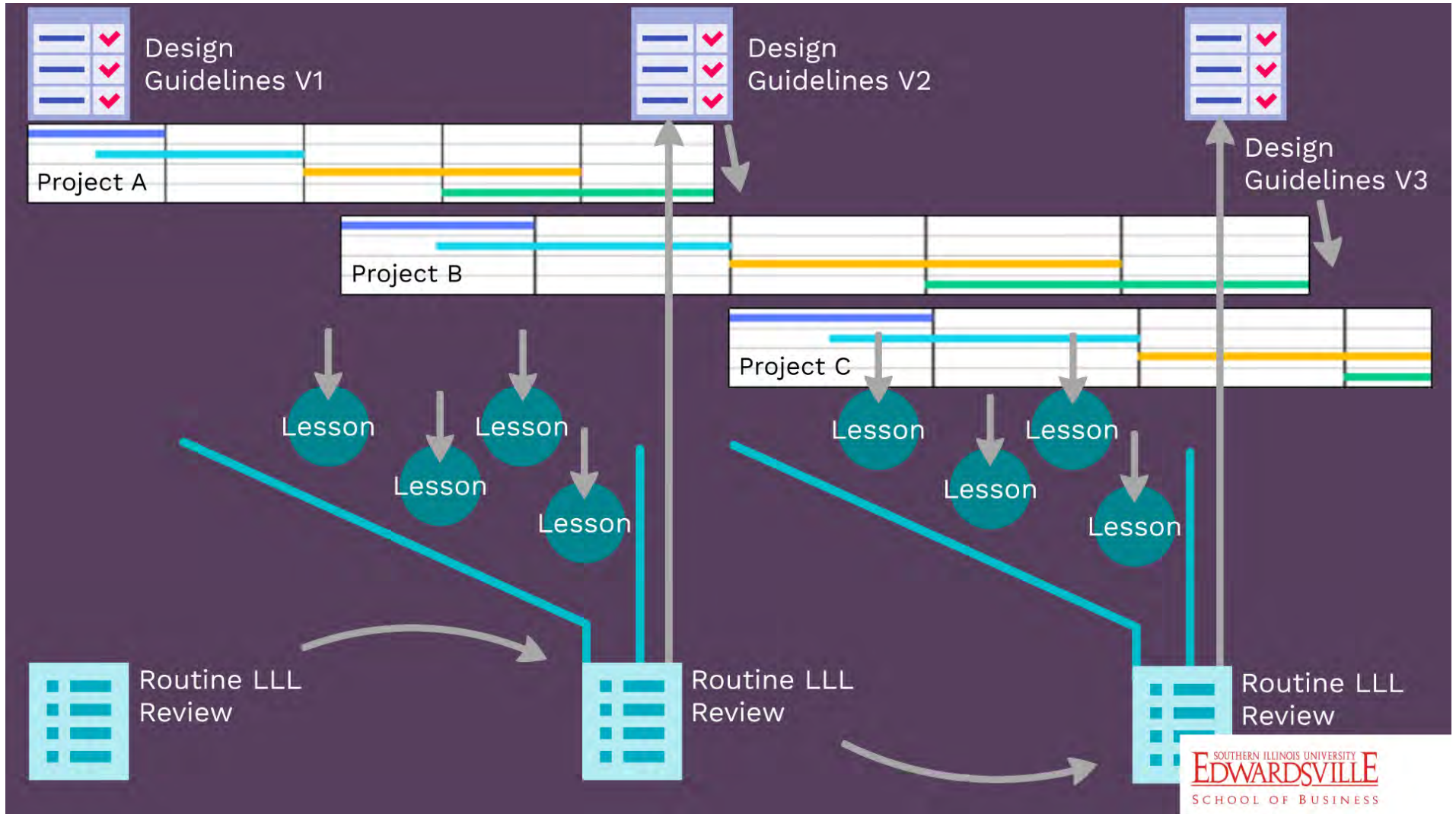


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L.L. EXERCISE...



Lessons Learned

New

Name	Description	Resolution	Status	Originator	Created Date	Category	Link
<input type="checkbox"/> Tree planting schedule	Tree planting schedule should consider the	1. For the area near the Billboard in I-55	Open	Gutierrez, Angeli...	9/16/19	Design	
<input type="checkbox"/> Alternatives to Drilled Shaft Consid...	Drilled Shafts seem to continue to have		Open	Admin, GRG	8/26/19	Design	
<input type="checkbox"/> Vendor basis of design	If a vendor (boardwalk, pedestrian bridge,	If a vendor (boardwalk, pedestrian	Open	Boring, Lonny	8/26/19	Design	
<input type="checkbox"/> Breakaway sign supports	MoDOT is requiring all signs within their ROW	Sign Consultant adjusting external	Open	Admin, GRG	1/15/19	Signage	
<input type="checkbox"/> Retro-Reflective Signs	MoDOT requested all GRG sign panels to be	Received specification	Open	Admin, GRG	1/15/19	Signage	
<input type="checkbox"/> MSE Wall Soil Reinforcement	Sheet C-600 includes notes entitled:	Check item added to Design Plan	Closed	Boring, Lonny	1/8/19	MSE Wall Desgin	
<input type="checkbox"/> Multi-year Budget Contract Approval	The contract language (GRG Form 4) did not	Clause added to all contract templates	Closed	Admin, GRG	9/13/18	Procurement	
<input type="checkbox"/> Certified Payroll	For workforce tracking, it is necessary to have	Reopened to propose that standard	Open	Gutierrez, Angeli...	7/12/18	JSPs	
<input type="checkbox"/> Neighborhood Connections	All projects need to ensure that proposed	Review item added to the Design Plans	Closed	Boring, Lonny	6/7/18	Adjacent properties	
<input type="checkbox"/> MSD Permit Fees	GRG is required to pay MSD plan review and	Review item added to the Design Plans	Closed	Boring, Lonny	4/20/18	Permits	

Portfolio ▼ All ▼ Search all categories US + GRG Admin 👤 nin 👤

Portfolio Center | Portfolio Work Items | Portfolio Status Overview | Portfolio Ranking | Portfolio Simulation | Capacity Planning | Portfolio Dashboards GRG | Definition (Administration/Cost Items/Identification)

Portfolio Folder OK Overview | Definition | Budget | Project Scorecard List | Score Cards | Scored-Phase-Costs | Metrics | Activity/Phase | Descriptions | Lessons Learned ⋮

Filter

GRG

Build

- 01-St. Louis City
- 02-St. Louis County
- 03-St. Charles County
- 04-St. Louis City and County
- 05-St. Louis and St. Charles Counties
- 06-Regional

Promote

Sustain

Project Lessons Learned (Working Projects)

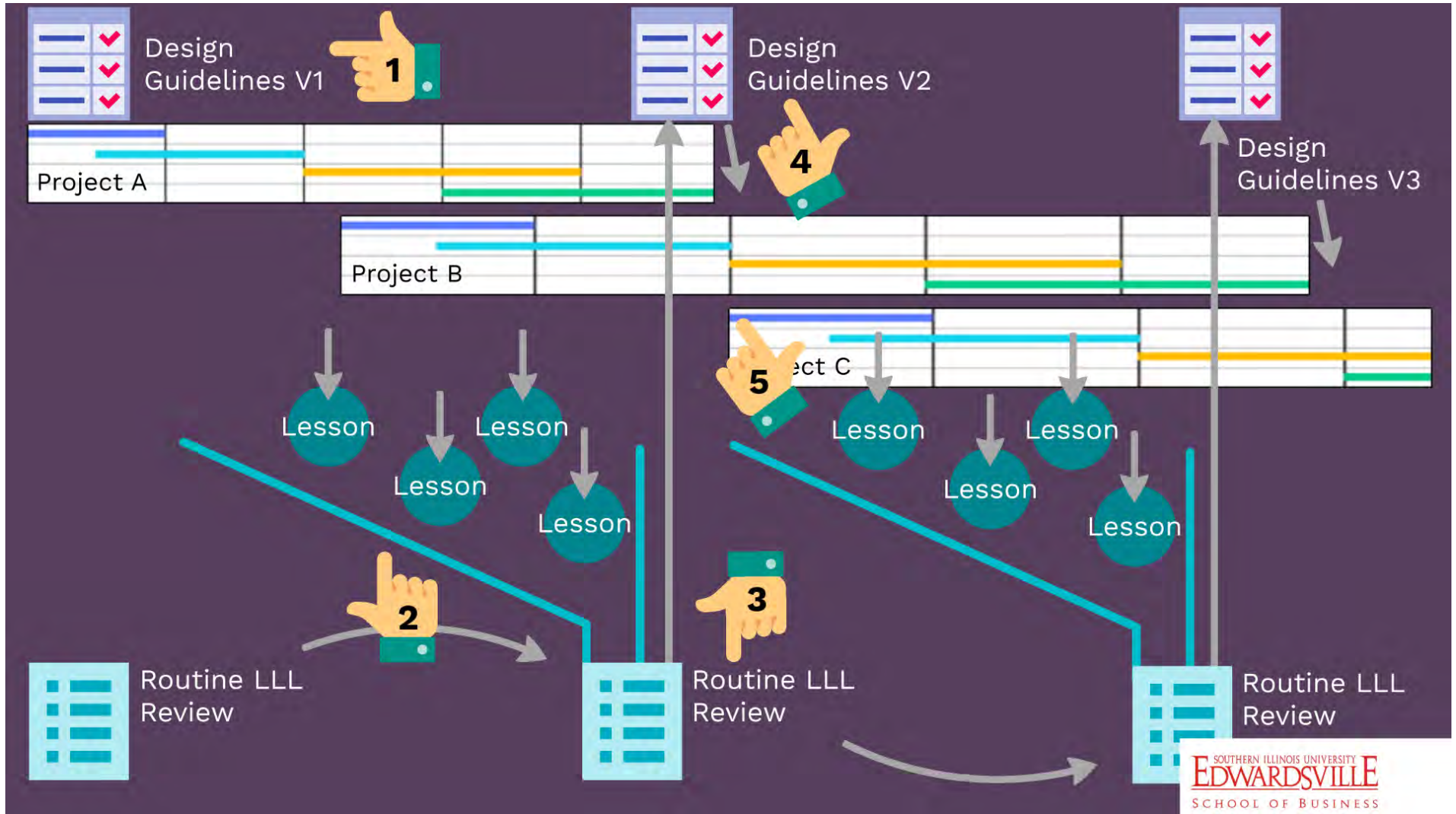
Chartered Projects | CIP Projects | Level Funded | Pick Projects ☰

Project ID	Project Name	Lesson Name	Lesson Description	Lesson Originator	Lesson Date	Lesson Category	Lesson Status	Lesson Resolution
118A	Gravois: Hoffmeister Ave. to River des Peres Greenway	Certified Payroll	For workforce tracking, it is necessary to have the certified payroll documents to reflect the minorities and women category participating. JSP or general conditions need to include the requirement.	Gutierrez, Angelica	7/12/18	JSPs	Open	Reopened to propose that standard GCs be updated with necessary language. Review item added to the Design Plans Checklist
118	Gravois: Orlando's to Hoffmeister Ave.	Standardizing Public Notice Signage in Specs	Standard JSPs are needed to establish minimum communication and notification requirements for surrounding residents. Multiple residents claimed not to have known of impending construction near them (see similar LL on Project 243).	Admin, GRG	3/19/18	Engagement	Open	
002	Regional: Build/Planning Small Projects	Trail Counter Guidelines	No guidelines currently exist on the proper inclusion and use of trail counters. Recommend incorporating new guideline in the Design Guidelines.	Admin, GRG	1/24/19	Design Guidelines	Open	New Build PM assigned to become the "Eco-Counter Expert" can work to develop Design Guideline content for trail counters.
605	Centennial: Bridges Over Hwys 364 & 94	Sign Panels falling out	Sign panels on one-sided pedestal signs are wobbling and falling out in some cases	Owens, Patrick	10/2/18	Signage	Closed	New sign standards implemented requiring panel holes to be drilled on-site.
605	Centennial: Bridges Over Hwys 364 & 94	Cold Ribbon Cutting	Ribbon Cutting held on April 7. It was 37 degrees with 20 mph gusts. It was very cold.	Owens, Patrick	4/23/18	Engagement	Closed	Promote Team has added personnel dedicated to Project-level community engagement
605	Centennial: Bridges Over Hwys 364 & 94	Exceptional Partnership	All parties coordinating the promotion on the event. Pushed out on social etc.	Owens, Patrick	4/23/18	Engagement	Closed	Promote Team has added personnel dedicated to Project-level community engagement

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LEARNING LESSONS LEARNED

1. Uniform Project/Design Guides
2. Agreed upon LL logging and storage process
3. Rhythm of LLL review & application to Standards/Guides
4. Decide what to do AND how to make sure it's done
5. Project teams oriented to Standards/Guides and LL process





Great Rivers Greenway



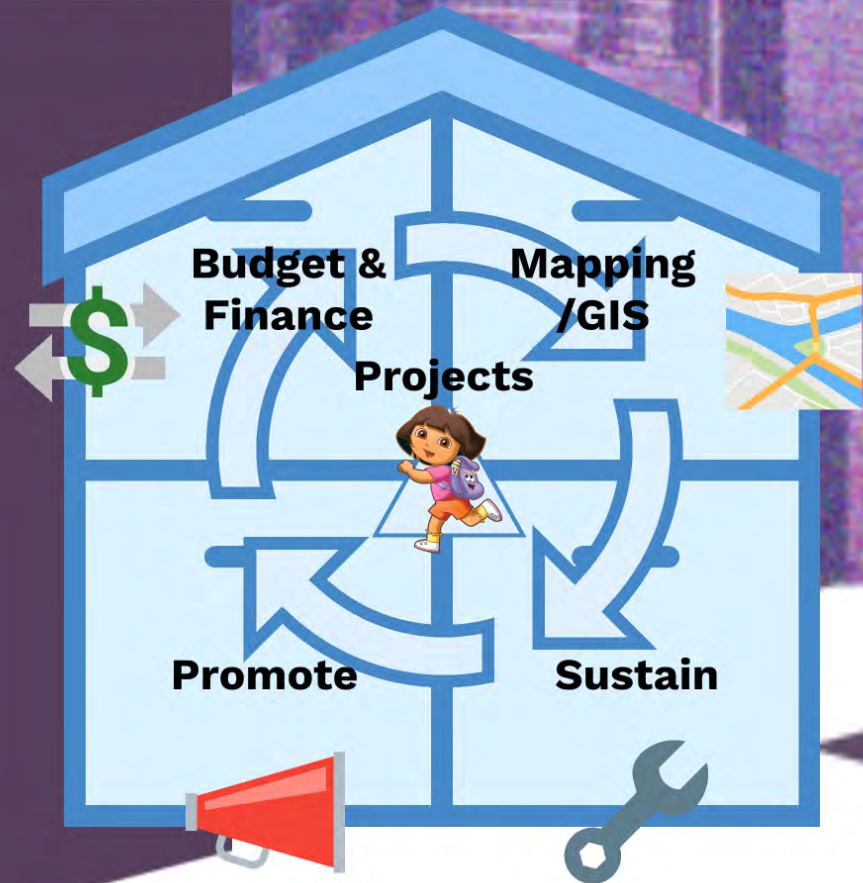
Patrick Owens, PMP

Kevin Corwin, PE, PLS, PMP

11/22/2019

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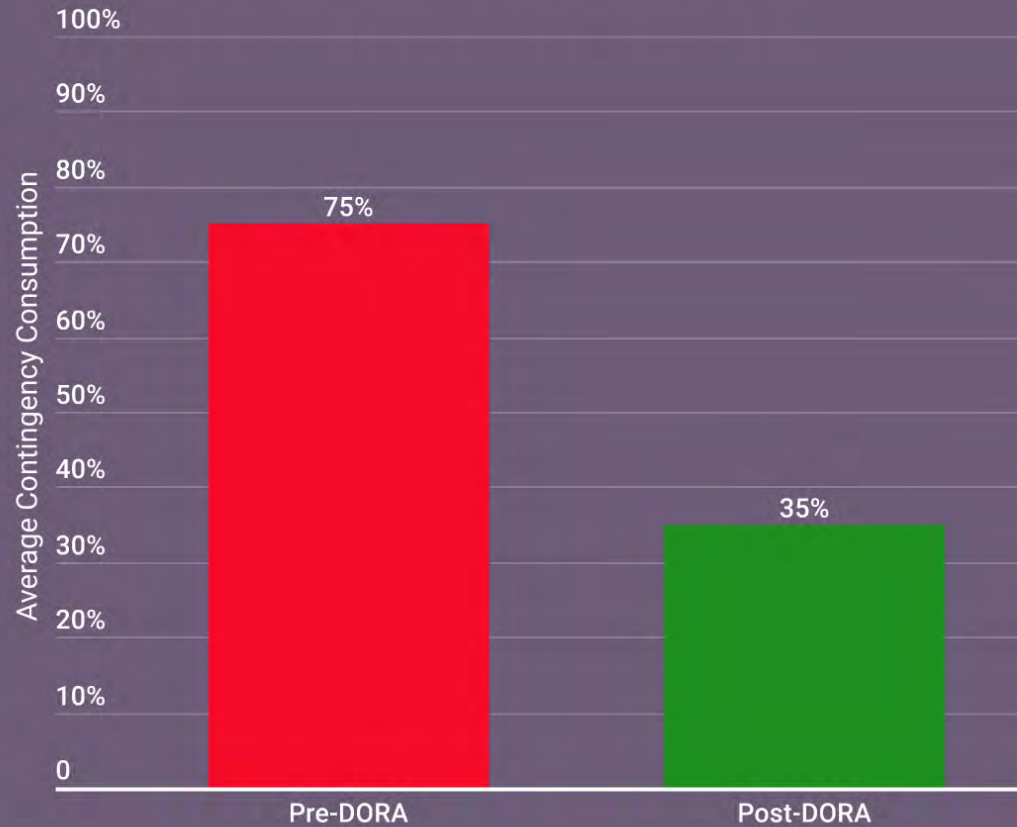
INTERNAL EFFICIENCIES



INSIGHT

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CONTROL THROUGH INSIGHT



PREDICTABILITY

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PREDICTABILITY = PRODUCTIVITY



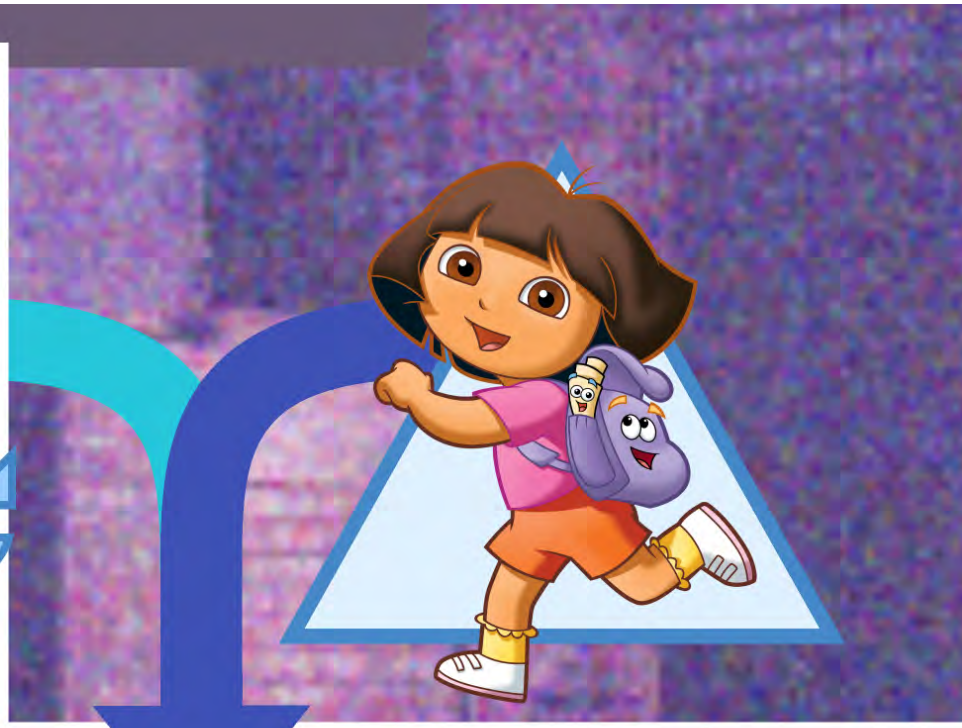
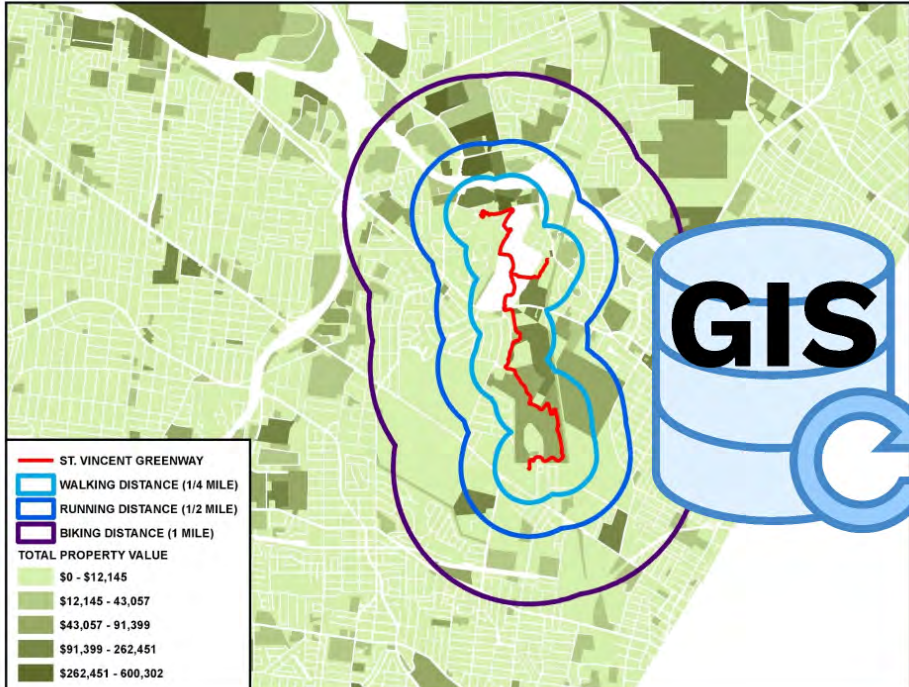
Code	Score	2020	2021	2022	2023	2024	2025
Project A	90	\$150,000.00	\$205,000.00	\$1,495,000.00	\$0.00	\$0.00	\$0.00
Project B	80	\$195,000.00	\$615,000.00	\$4,750,000.00	\$1,260,000.00	\$0.00	\$0.00
Project C	70	\$0.00	\$108,000.00	\$715,000.00	\$2,600,000.00	\$0.00	\$0.00
Project D	60	\$0.00	\$0.00	\$180,000.00	\$450,000.00	\$2,237,875.00	\$360,000.00
Project E	50	\$0.00	\$0.00	\$200,000.00	\$325,000.00	\$1,500,000.00	\$750,000.00
Project F	40	\$0.00	\$0.00	\$0.00	\$150,000.00	\$468,000.00	\$4,200,000.00
Cost:		\$345,000.00	\$928,000.00	\$7,340,000.00	\$4,775,000.00	\$4,205,875.00	\$5,310,000.00
Budget:		\$3,600,000.00	\$6,665,000.00	\$9,227,000.00	\$5,387,000.00	\$4,112,000.00	\$3,406,125.00
Balance:		\$3,155,000.00	\$5,727,000.00	\$1,887,000.00	\$612,000.00	(\$93,875.00)	(\$1,903,875.00)

Completed Projects:	0	0	1	3	3	5
Rolling Total Score:	9.59	19.29	69.32	90.13	104.57	113.31

Code	Total Score	2020	2021	2022	2023	2024	2025
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Project E	50	\$200,000.00	\$325,000.00	\$1,500,000.00	\$750,000.00	\$0.00	\$0.00
Project F	40	\$0.00	\$0.00	\$0.00	\$0.00	\$150,000.00	\$468,000.00
Cost:		\$638,000.00	\$1,695,000.00	\$8,027,875.00	\$1,725,000.00	\$4,900,000.00	\$1,718,000.00
Budget:		\$3,600,000.00	\$6,362,000.00	\$8,167,000.00	\$3,659,125.00	\$5,414,125.00	\$4,014,125.00
Balance:		\$2,962,000.00	\$4,667,000.00	\$139,125.00	\$1,914,125.00	\$514,125.00	\$2,296,125.00

Completed Projects:	0	0	2	4	4	5
Rolling Total Score:	16.46	35.86	101.47	108.33	119.72	122.76

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0 0 1 3 3 5

Rolling Total Score:

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	Balance:	\$2,862,000.00	\$4,667,000.00	\$139,125.00	\$1,914,125.00	\$514,125.00	\$2,296,125.00

Completed Projects:

0

0

2

4

4

5

Rolling Total Score:

16.46

35.86

101.47

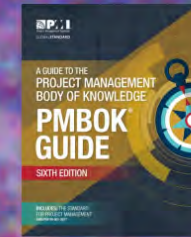
108.33

119.72

122.76

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

CONFIDENCE & TRUST



THE GUIDE

THE RESULTS

KEY APPROACHES

THE BACKPACK

GRG CAPITAL PROJECTS

Great Rivers Greenway
 AM:PM
 (((((((())))))))
 Patrick Owens, PMP
 Kevin Corwin, PE, PLS, PMP
 11/22/2019

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