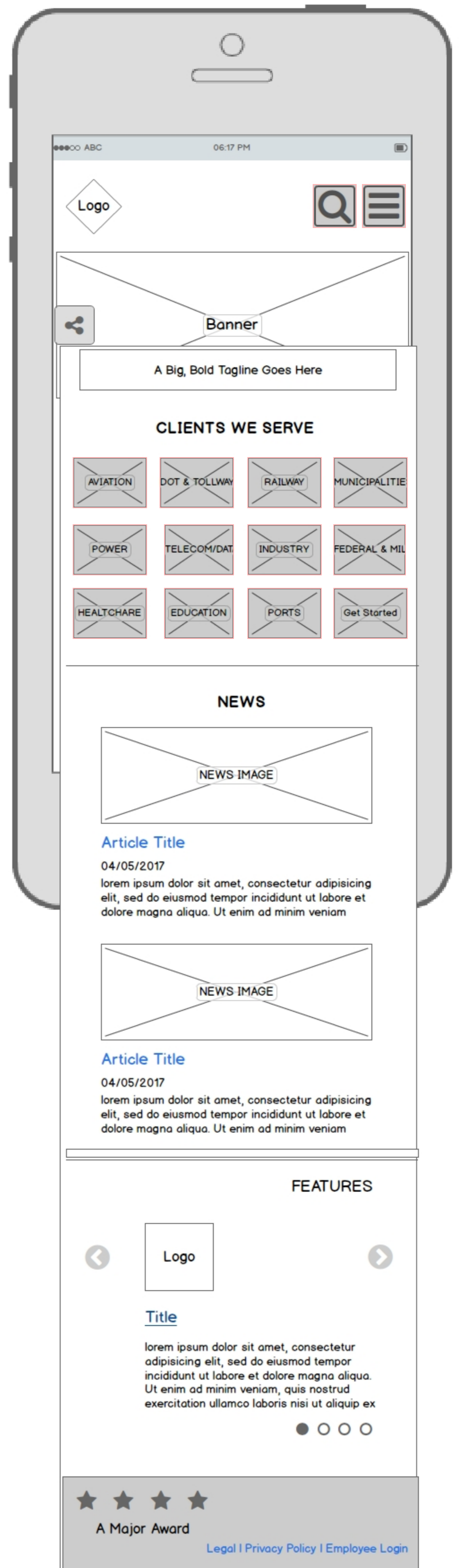
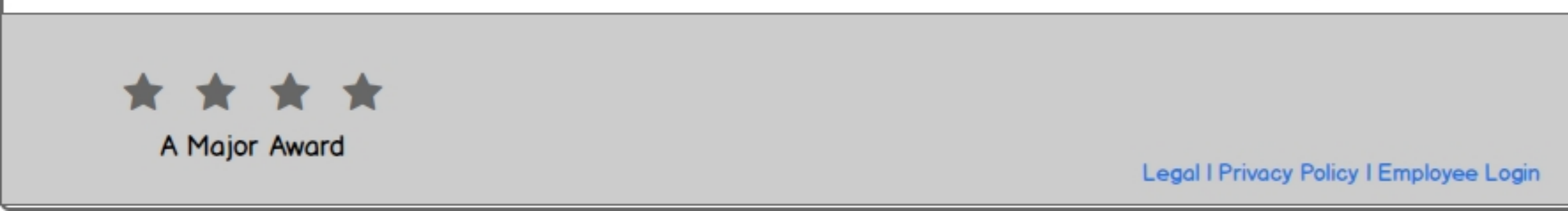
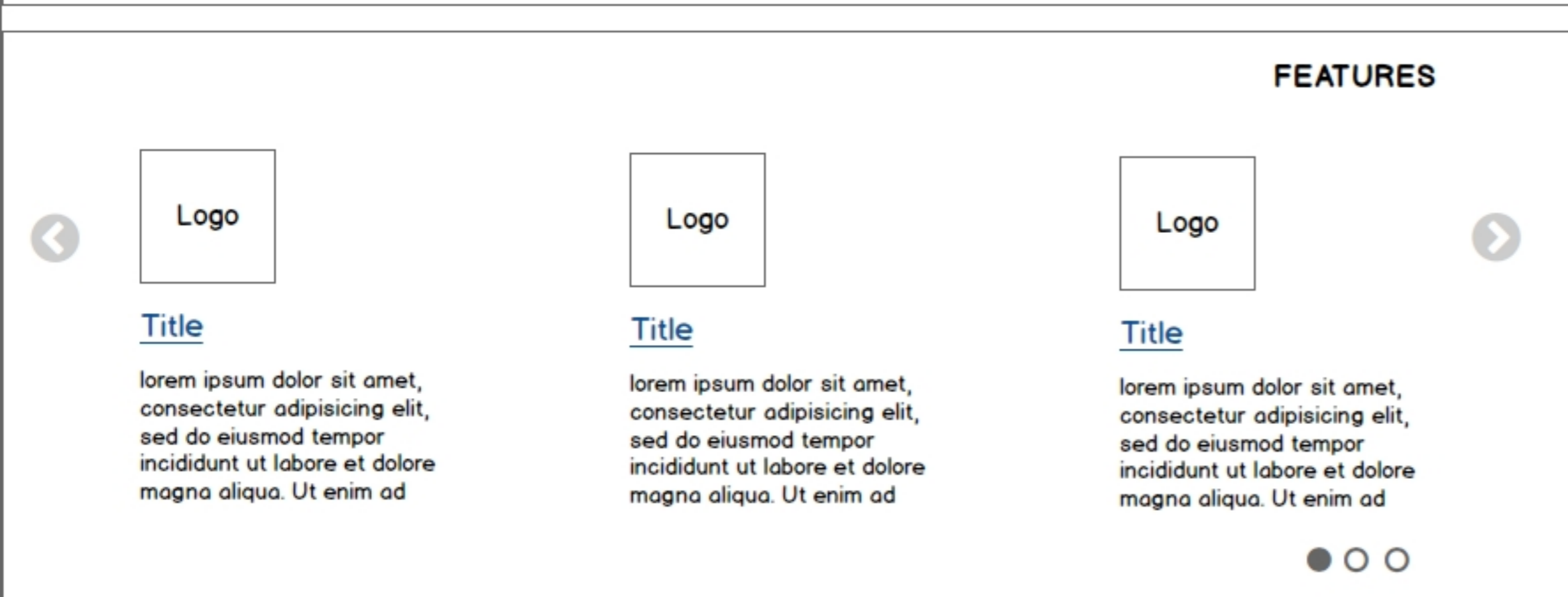
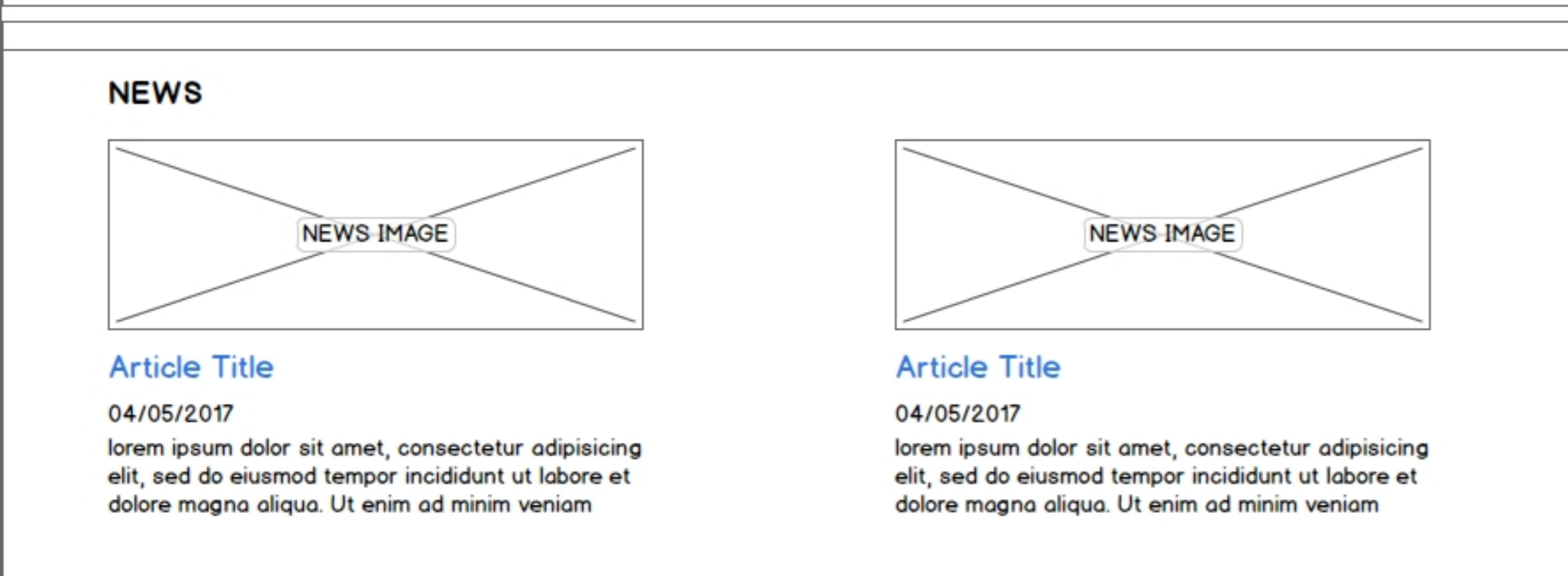
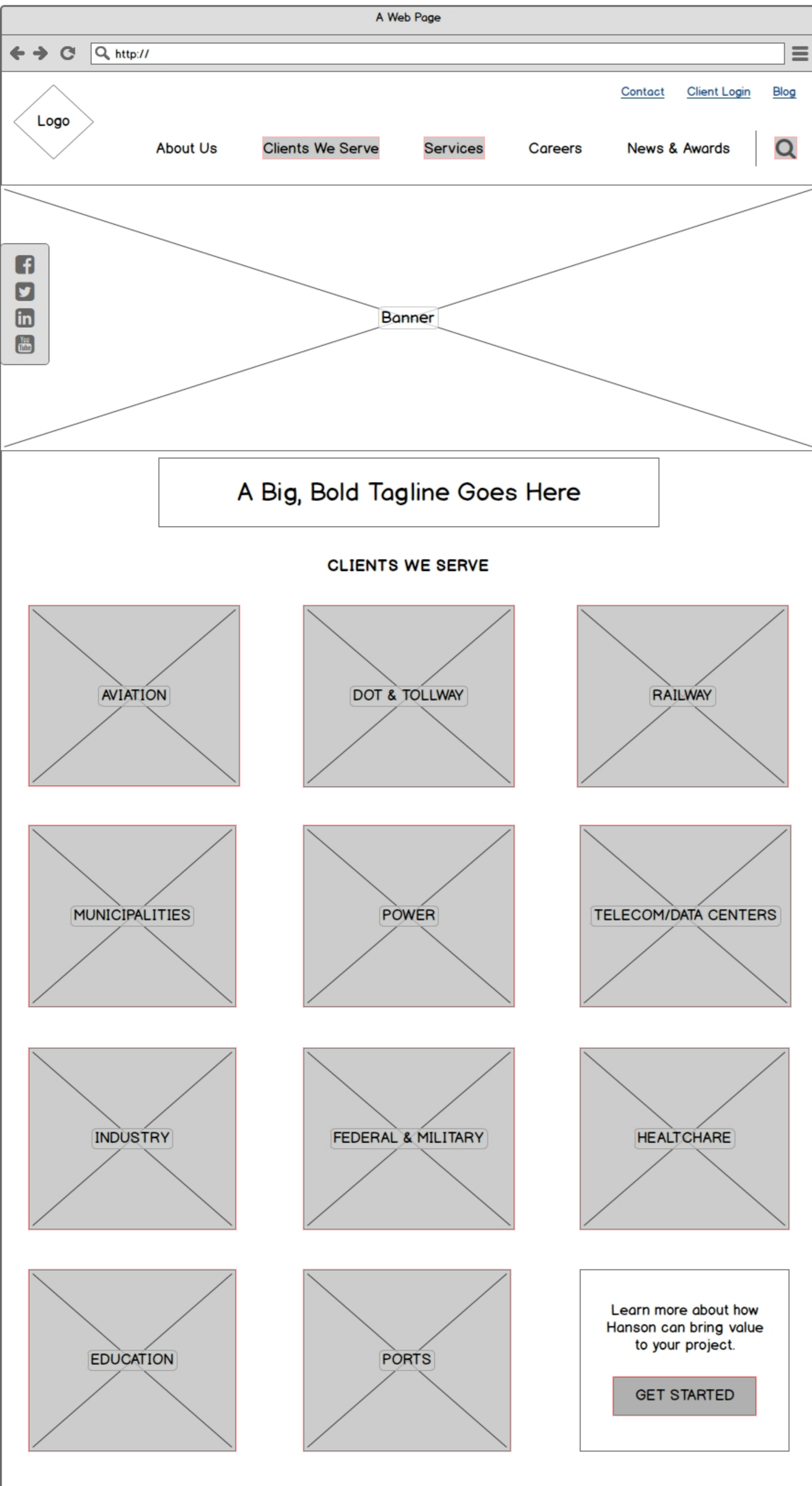


HOMEPAGE



DESKTOP MENU

A Web Page

http://

Logo

Contact Client Login Blog

About Us Clients We Serve Services Careers News & Awards

Banner

Engineering

Building & Design

Commission & Energy

Planning & Management

Land Acquisition

Environmental

Construction

Geospacial

LOREM IPSUM

Hanson's transportation engineers have experience in various transportation disciplines across the United States and around the world, highlighting our experience and our staff's skills.

Our transportation engineering services include:

- analysis
- construction administration
- design
- environmental services
- geometrics
- GIS
- intelligent transportation services
- land acquisition
- planning
- quality control
- reports
- specifications
- studies
- surveys
- traffic engineering
- value engineering

corresponding civil engineering services such as structural, geotechnical, water resources, municipal and site development

Our transportation engineering capabilities include hands-on support for:

- transportation
 - aviation
 - DOTs & Tollways
 - railway
 - maritime & inland waterways
 - multimodal
 - streets & arterials

Engineering

- Transportation
- Structural
- Geotechnical
- Water Resources
- Municipal
- Site Development
- Electrical
- Mechanical
- Technological

Building & Design

Commission & Energy

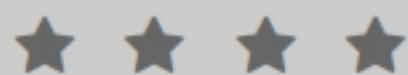
Planning & Management

Land Acquisition

Environmental

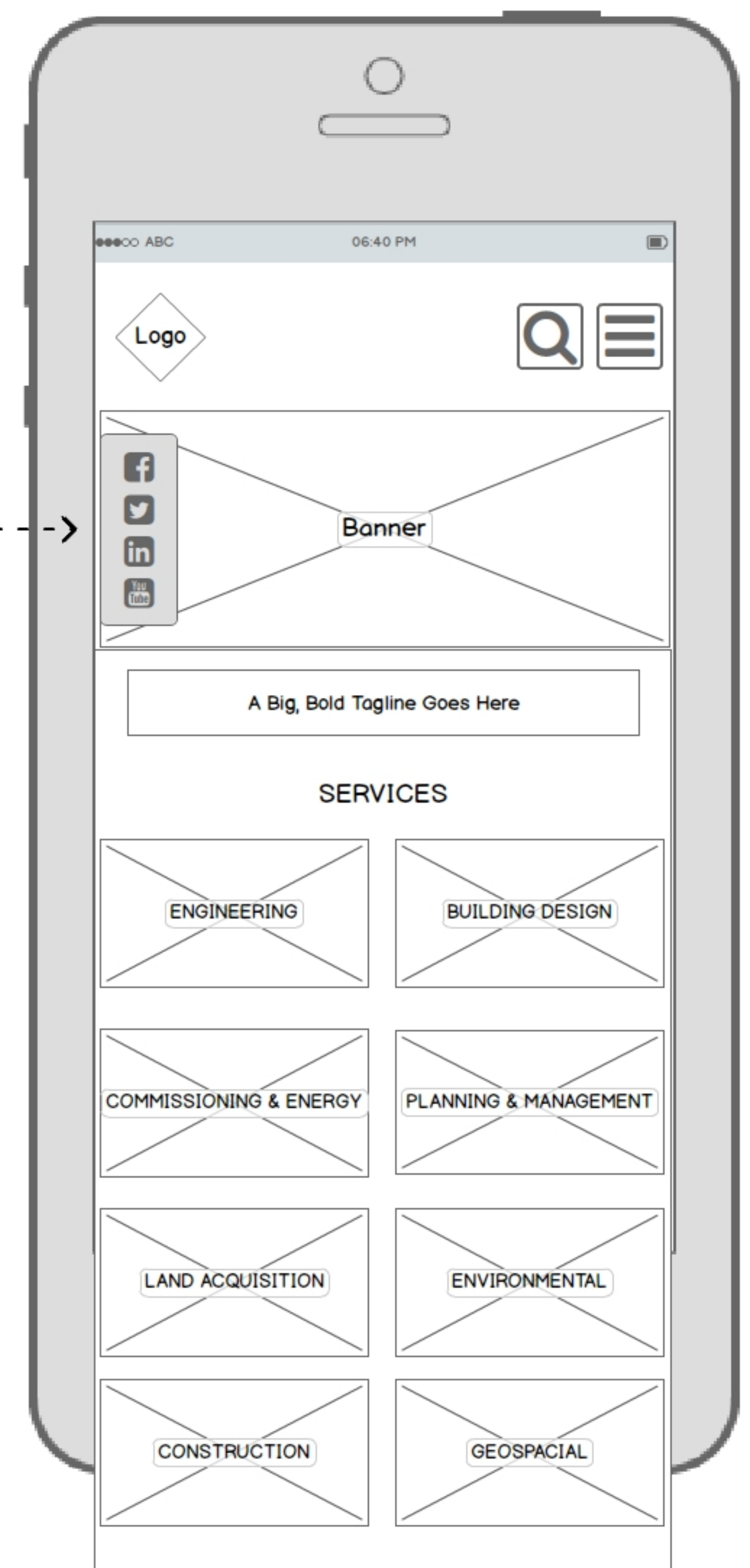
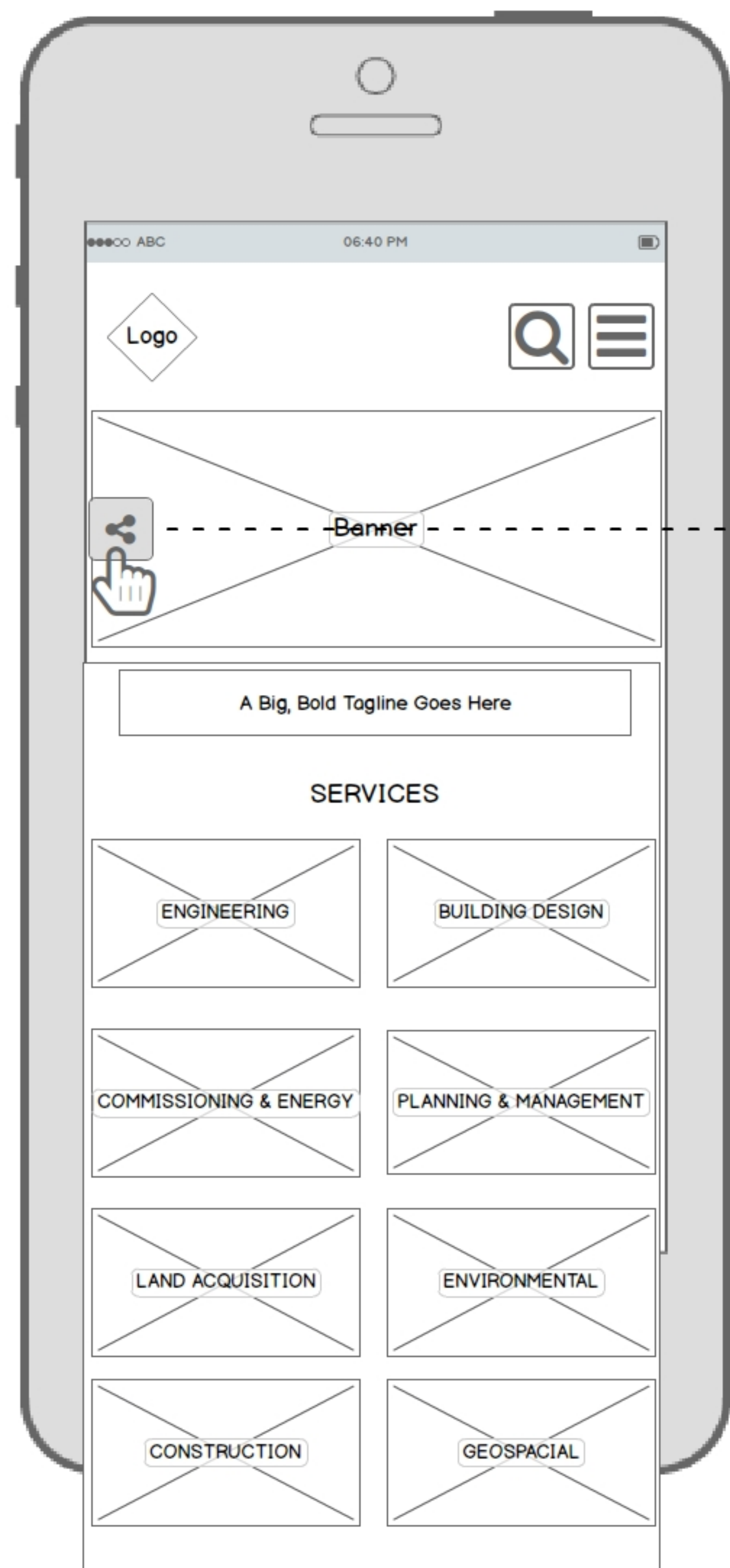
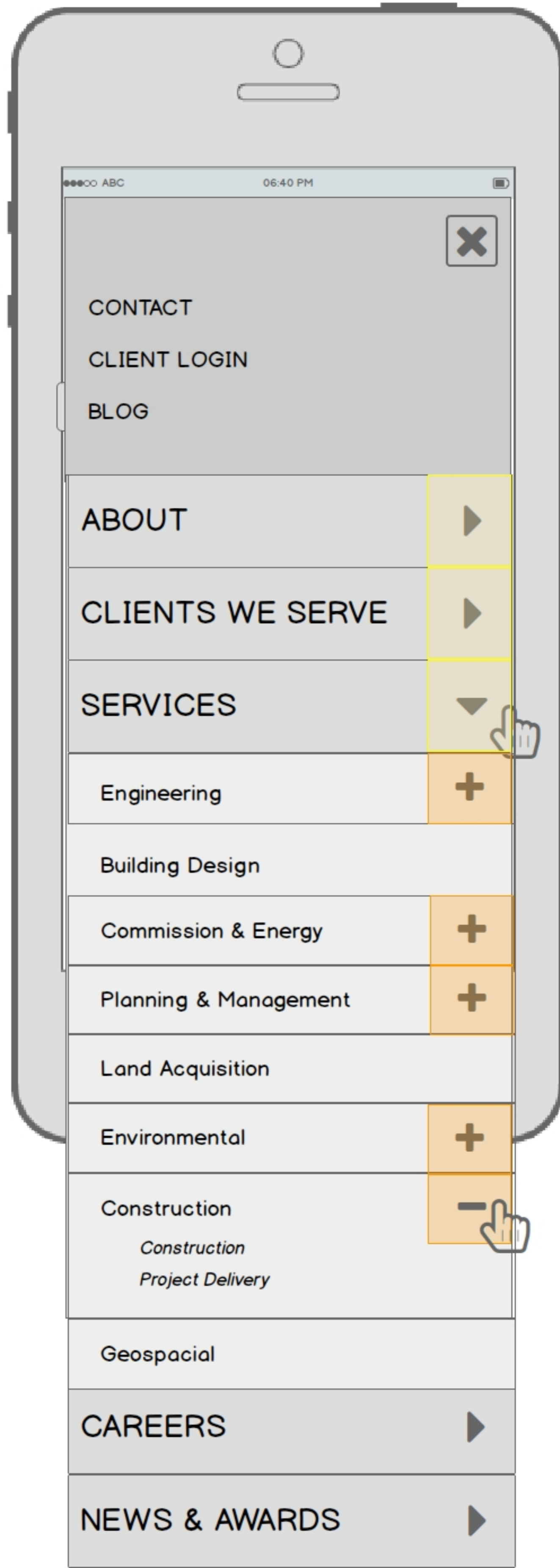
Construction

Geospacial



A Major Award

MOBILE MENU



SEARCH

A Web Page

← → ↻ ☰



[Contact](#) [Client Login](#) [Blog](#)

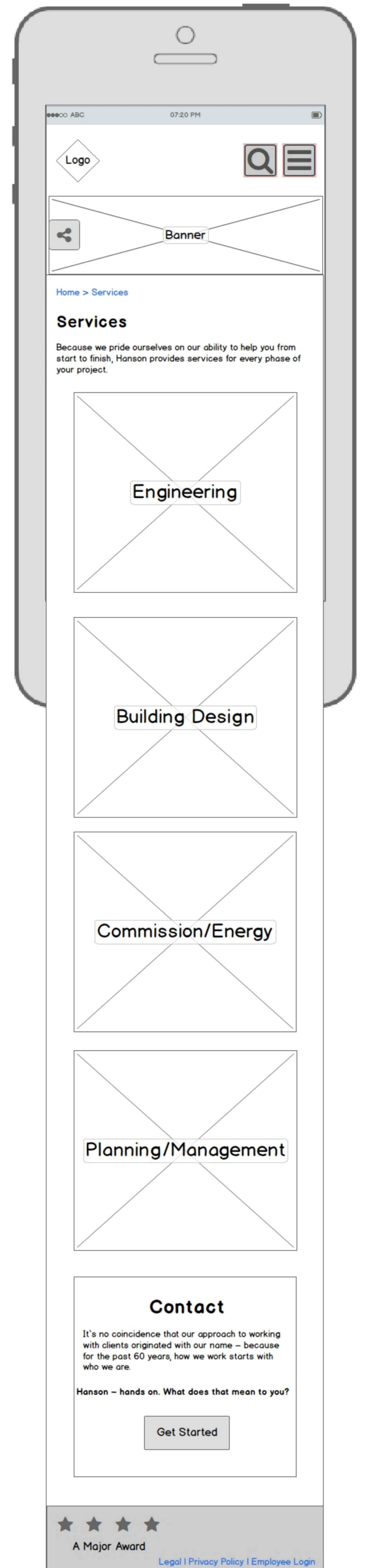
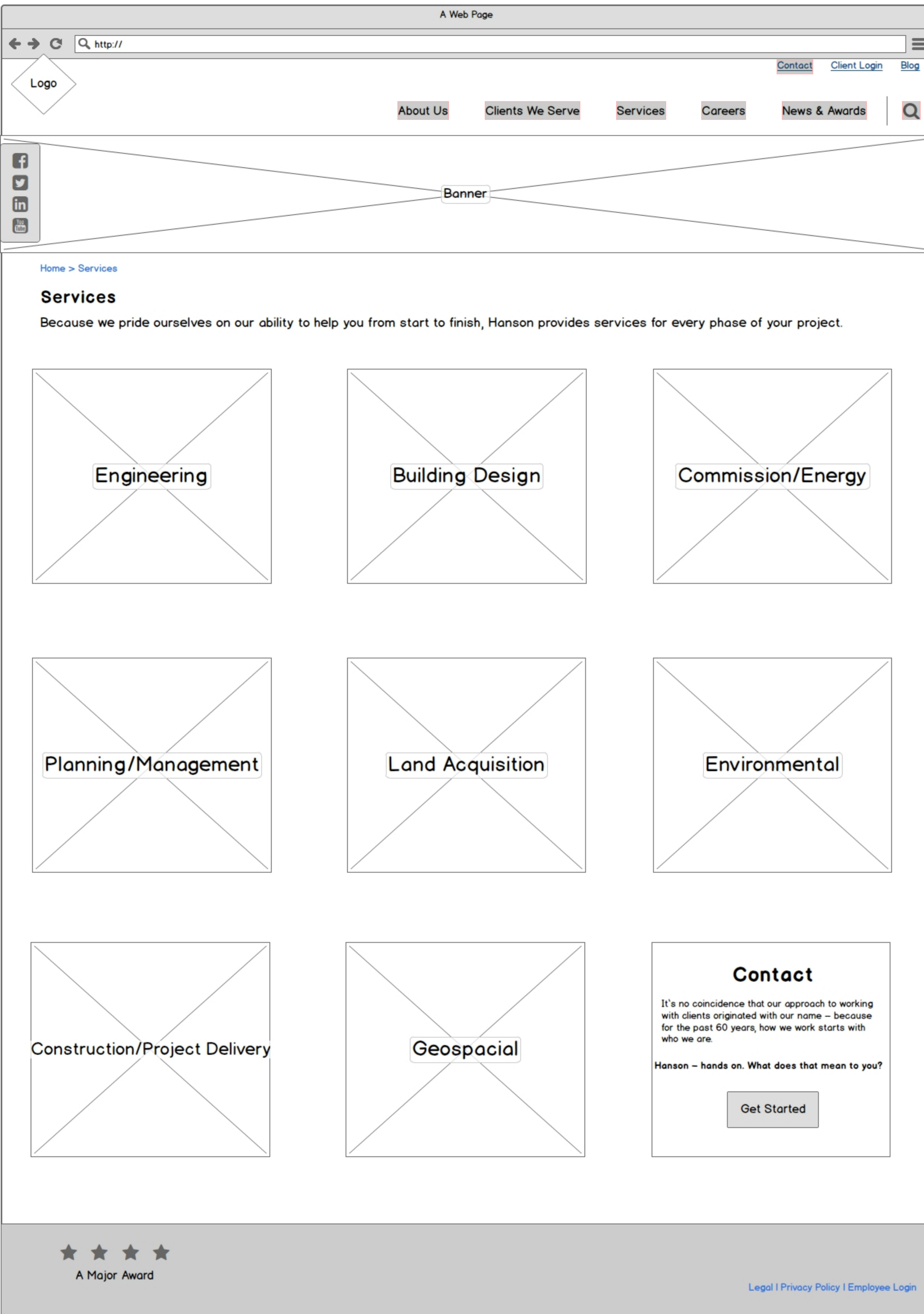
Search Hanson...

GO



Banner

Landing Page - Services



Details Page - Services

A Web Page

http://

Contact Client Login Blog

Logo

About Us Clients We Serve Services Careers News & Awards

Banner

Home > Services > Engineering > Transport Engineering

Transport Engineering

Hanson's transportation engineers have experience in various transportation disciplines across the United States and around the world. We have been recognized with various awards for our transportation project work, highlighting our experience and our staff's skills.

Our transportation engineering services include:

- analysis
- construction administration
- design
- environmental services
- geometrics
- GIS
- intelligent transportation services
- land acquisition
- planning
- quality control
- reports
- specifications
- studies
- surveys
- traffic engineering
- value engineering
- corresponding civil engineering services such as structural, geotechnical, water resources, municipal and site development

"This is a testimonial lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation"
- A Great Client
ABC Company

Document Library

- [White Paper.doc](#)
- [Sample.pdf](#)
- [White Paper.doc](#)
- [Sample.pdf](#)

Contact

It's no coincidence that our approach to working with clients originated with our name – because for the past 60 years, how we work starts with who we are.

Hanson – hands on. What does that mean to you?

Get Started

Our transportation engineering capabilities include hands-on support for:

- transportation
- aviation
- DOTs & Tollways
- railway
- maritime & inland waterways
- multimodal
- streets & arterials

Project Portfolio

Portfolio Image

Indianapolis International Airport

Portfolio Image

Interstate 74

Portfolio Image

Monroe County Airport

LOAD MORE

Features

Logo

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Logo

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Logo

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

★ ★ ★ ★
A Major Award

Legal | Privacy Policy | Employee Login

Logo

Banner

Home > Services

Services

Hanson's transportation engineers have experience in various transportation disciplines across the United States and around the world. We have been recognized with various awards for our transportation project work, highlighting our experience and our staff's skills.

Our transportation engineering services include:

- analysis
- construction administration
- design
- environmental services
- geometrics
- GIS
- intelligent transportation services
- land acquisition
- planning
- quality control
- reports
- specifications
- studies
- surveys
- traffic engineering
- value engineering
- corresponding civil engineering services such as structural, geotechnical, water resources, municipal and site development

"This is a testimonial lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation"
- A Great Client
ABC Company

Our transportation engineering capabilities include hands-on support for:

- transportation
- aviation
- DOTs & Tollways
- railway
- maritime & inland waterways
- multimodal
- streets & arterials

Document Library

- [White Paper.doc](#)
- [Sample.pdf](#)
- [White Paper.doc](#)
- [Sample.pdf](#)

Contact

It's no coincidence that our approach to working with clients originated with our name – because for the past 60 years, how we work starts with who we are.

Hanson – hands on. What does that mean to you?

Get Started

Our transportation engineering capabilities include hands-on support for:

- transportation
- aviation
- DOTs & Tollways
- railway
- maritime & inland waterways
- multimodal
- streets & arterials

Document Library

- [White Paper.doc](#)
- [Sample.pdf](#)
- [White Paper.doc](#)
- [Sample.pdf](#)

Contact

It's no coincidence that our approach to working with clients originated with our name – because for the past 60 years, how we work starts with who we are.

Hanson – hands on. What does that mean to you?

Get Started

Project Portfolio

Portfolio Image

Indianapolis International Airport

LOAD MORE

Features

Logo

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

★ ★ ★ ★
A Major Award

Legal | Privacy Policy | Employee Login

Project Portfolio

Portfolio Image

Indianapolis International Airport

Portfolio Image

Interstate 74

Portfolio Image

Monroe County Airport

SHOW LESS

Landing Page - Clients We Serve

A Web Page

http://

Contact Client Login Blog

Logo

About Us Clients We Serve Services Careers News & Awards

Banner

Home > Clients We Serve > Aviation

Aviation

From general aviation to commercial service hub airports, Hanson understands your consulting needs. With personal attention from the early planning and environmental stages through design and construction, we work to help make your airport project a success.

Hanson has completed hundreds of airport projects, including airport layout and master plans, land acquisition services, and design and construction services for projects ranging from apron expansions to new runways with associated navigational aids.

Constant changes in the aviation industry mean you need a firm that is knowledgeable of governing agencies and current regulations and knows how to make adjustments based upon market conditions.

You will appreciate our team of experienced aviation professionals' hands-on approach and benefit from a project/program manager who understands your capital program and your project from start to finish. We also will apply our knowledge of regulations and use our working relationships with the Federal Aviation Administration and state aeronautics agencies to provide the services you require in developing your airport facility.

"This is a testimonial lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation"
- A Great Client
ABC Company

Related Services

- Transportation
- Mechanical
- Sample Service
- Sample Service
- Sample Service

Document Library

- White Paper.doc
- Sample.pdf
- White Paper.doc
- Sample.pdf

Content Related Image

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Contact

It's no coincidence that our approach to working with clients originated with our name – because for the past 60 years, how we work starts with who we are.

Hanson – hands on. What does that mean to you?

Get Started

Project Portfolio

Portfolio Image

Portfolio Image

Portfolio Image

Indianapolis International Airport

Interstate 74

Monroe County Airport

LOAD MORE

Features

Logo

Logo

Logo

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

ABC 07:26 PM

Logo

Banner

Home > Clients We Serve > Aviation

Aviation

From general aviation to commercial service hub airports, Hanson understands your consulting needs. With personal attention from the early planning and environmental stages through design and construction, we work to help make your airport project a success.

Hanson has completed hundreds of airport projects, including airport layout and master plans, land acquisition services, and design and construction services for projects ranging from apron expansions to new runways with associated navigational aids.

"This is a testimonial lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation"
- A Great Client
ABC Company

Content Related Image

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Related Services

Document Library

Contact

It's no coincidence that our approach to working with clients originated with our name – because for the past 60 years, how we work starts with who we are.

Hanson – hands on. What does that mean to you?

Get Started

Project Portfolio

Portfolio Image

Indianapolis International Airport

LOAD MORE

Features

Logo

Logo

Title

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

★ ★ ★ ★

A Major Award

Legal | Privacy Policy | Employee Login

Project Gallery - Details Page

A Web Page

Logo

Contact Client Login Blog

About Us Clients We Serve Services Careers News & Awards

Banner

Home > Services > Engineering > Transportation > Projects > Ameren Illinois Rivers Gallery

Back

Ameren Illinois Rivers transmission line river crossings

Client: Ameren Corp
Location: Mississippi & Illinois Rivers, IL
Date Completed: Ongoing

Project Summary:
Hanson is providing geotechnical, structural, civil and hydraulic engineering services for Ameren Transmission Co. of Illinois' Illinois Rivers transmission line, which crosses three major rivers. The transmission line crosses the Illinois River near Meredosia and Beardstown and the Mississippi River near Quincy. The project involves providing foundation designs and access support for 14 lattice towers that reach as high as 460 feet and feature spans as wide as 3,700 feet. Foundation types included all-steel tripod foundations with driven H- and pipe piles as well as concrete pedestals with driven pipe piles.

Hanson provided technical oversight and borehole logging for geotechnical investigations at each of the structure locations, in some cases, advancing soil test borings to rock 120 feet below the surface. Hanson performed soil laboratory testing, land and bathymetric surveying and engineering analysis of design load cases, geotechnical parameters and hydraulic aspects of the river crossings to develop foundation design parameters and performance criteria (strength and displacement) for the evaluated conditions. These conditions included flood levels, scour and debris, hydraulic and ice forces.

Two foundation types were chosen to efficiently adapt to the unique conditions at each of the three crossings. The all-steel tripods were chosen as one of the types to eliminate the need for delivering or producing concrete for the foundations located on islands in the river. The tripod and pile combination also reduced wetland impacts in sensitive areas.

Civil engineering services involved the design of construction access to each of the river crossing tower locations. At the Mississippi River crossing — the Herleman to Maywood river crossing — Hanson designed and permitted a 200-foot temporary riprap causeway from the main channel of the river to an existing sand bar. The causeway provided for the unloading of construction equipment and materials from barges onto the island that one of the transmission line towers is now located. The design necessitated obtaining a floodway construction permit, or "No-Rise" certification from the Illinois Department of Natural Resources' Office of Water Resources. For the permit, Hanson had to demonstrate that the causeway construction would not cause an increase in the water surface elevation of greater than 0.01 foot.

The Mississippi River crossing and one of the Illinois River crossings have been completed successfully. The final Illinois River crossing — the Meredosia to Ipava river crossing — is underway. Each location offered significant and unique challenges in permitting, access, subsurface conditions and the varying and often unpredictable river levels.

An article on the Mississippi River crossing is included in the November 2016 Transmission & Distribution World Magazine's 2016 American Society of Civil Engineers (ASCE) Lines & Structures Supplement, <http://tdworld.com/supplements/mississippi-crossing>.

The article is an abbreviated and updated version of a technical paper co-authored by Ameren and Hanson personnel that was included in the

Project Images:

Image Image

Image Image

Project Media:

Video Video

Video Video

Clients We Serve

[Levees, Flood Control, & Dams](#)
[Power Delivery](#)

Services Provided

[Geotechnical Engineering](#)
[Geotechnical Engineering](#)
[Structural Engineering](#)
[Surveying](#)
[Transportation Engineering](#)
[Water Resources Engineering](#)

Awards

Honor Award: American lorem ipsum dolor sit amet, consectetur adipiscing eli
Honor Award: American lorem ipsum dolor sit amet, consectetur adipiscing eli

Need Help?
marketing@hanson-inc.com
(217) 788-2450
[Contact Us](#)

★ ★ ★ ★
A Major Award
[Legal](#) | [Privacy Policy](#) | [Employee Login](#)

Logo

Banner

Home > Services > Engineering > Transportation

Back

Ameren Illinois Rivers transmission line river crossings

Client: Ameren Corp
Location: Mississippi & Illinois Rivers, IL
Date Completed: Ongoing

Project Summary

Project Images:

Image Image

Image Image

Project Media:

Video Video

Clients We Serve

[Levees, Flood Control, & Dams](#)
[Power Delivery](#)

Services Provided

[Geotechnical Engineering](#)
[Geotechnical Engineering](#)
[Structural Engineering](#)
[Surveying](#)
[Transportation Engineering](#)
[Water Resources Engineering](#)

Awards

Honor Award: American lorem ipsum dolor sit amet, consectetur adipiscing eli
Honor Award: American lorem ipsum dolor sit amet, consectetur adipiscing eli

Need Help?
marketing@hanson-inc.com
(217) 788-2450
[Contact Us](#)

★ ★ ★ ★
A Major Award
[Legal](#) | [Privacy Policy](#) | [Employee Login](#)

CONTACT

A Web Page

http://

Logo

Contact Client Login Blog

About Us Clients We Serve Services Careers News & Awards

Banner

Home > About Us > Contact

Contact

Name

Email


Phone

Subject

Company

Reason for Inquiry





Message

I'm not a robot.  Recaptcha

Send Message

Headquarters:
Hanson Professional Services Inc.
1525 S. Sixth St.
Springfield, IL 62703

Phone: (217) 788-2450
Fax: (217) 788-2503
Email: marketing@hanson-inc.com

★ ★ ★ ★
A Major Award

[Legal](#) | [Privacy Policy](#) | [Employee Login](#)

ABC 07:26 PM

Logo

Banner

Contact

Name

Email

Phone

Subject

Company

Reason for Inquiry

Message

I'm not a robot.  Recaptcha

Send Message

Headquarters:
Hanson Professional Services Inc.
1525 S. Sixth St.
Springfield, IL 62703

Phone: (217) 788-2450
Fax: (217) 788-2503
Email: marketing@hanson-inc.com

★ ★ ★ ★
A Major Award

[Legal](#) | [Privacy Policy](#) | [Employee Login](#)

LOCATIONS

A Web Page

Logo

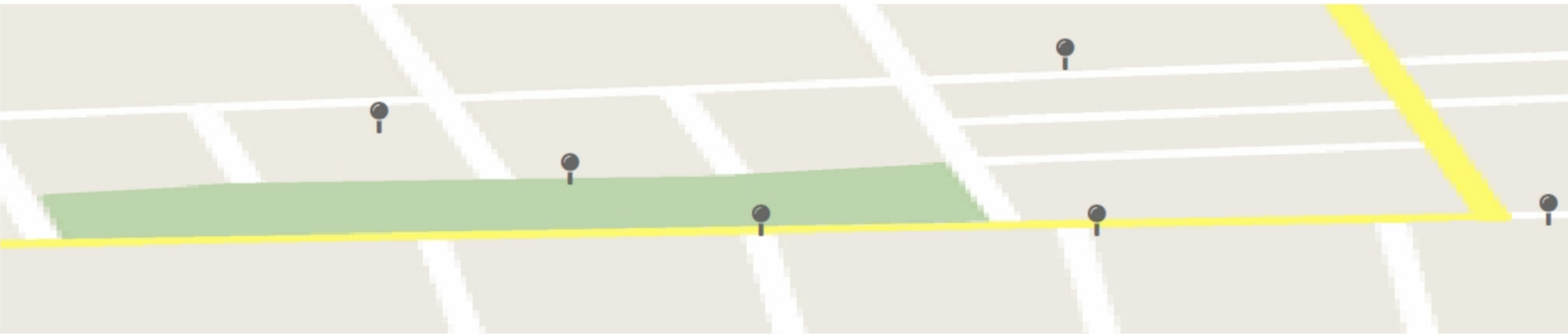
Contact Client Login Blog

About Us Clients We Serve Services Careers News & Awards

Banner

Home > Locations

Locations



All Locations

Need Help?
marketing@hanson-inc.com
(217) 788-2450
[Contact Us](#)

Alaska

Location Image

City
123 Main Street
Anywhere, AK 73441
217.793.3800

[Get Directions](#)

Florida

Location Image	Location Image	Location Image	Location Image
City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800
Get Directions	Get Directions	Get Directions	Get Directions

Illinois

Location Image	Location Image	Location Image	Location Image
City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800
Get Directions	Get Directions	Get Directions	Get Directions

Indiana

Location Image	Location Image	Location Image
City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800	City 123 Main Street Anywhere, AK 73441 217.793.3800
Get Directions	Get Directions	Get Directions

Logo

Banner

Home > Locations

Locations



Alaska

Location Image

City
123 Main Street
Anywhere, AK 73441
217.793.3800

[Get Directions](#)

Florida

Illinois

Indiana

Kansas

Kentucky

Minnesota

Missouri

North Carolina

New Jersey

Tennessee

Texas

Washington

Need Help?
marketing@hanson-inc.com
(217) 788-2450
[Contact Us](#)

★ ★ ★ ★
A Major Award

[Legal](#) | [Privacy Policy](#) | [Employee Login](#)