ATC PEDESTRIAN BRIDGE

DESIGN PRESENTATION

MARCH 3, 2015

MACALLAN CONSTRUCTION

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PROJECT TEAM

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Macallan Construction is a versatile general contractor that is known for seamlessly executing complex projects.

Based in Atlanta since 2002, Macallan takes pride in its ability to tailor custom solutions to meet the challenging and diverse needs of our clients. We were founded by principals that were able to bring together their complementary skills to form a diversified company with the ability and experience not typically found in a commercial general contractor our size. By integrating all aspects of the construction industry, Macallan can execute the most challenging construction projects and deliver the highest quality end-product for the best possible price.

We are licensed as an unlimited tier General Contractor in Georgia and have bonding capabilities that significantly exceed the requirements of this project.

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Since 1994, Atlanta-based Heath & Lineback Engineers, Inc. has designed civil and transportation infrastructure projects for federal, state, county, municipal, and architectural clients. Our services include bridge and other structural design, inspection, and maintenance; roadway design; pedestrian facilities; hydraulic studies; site design; and water/wastewater/sewer design.

Our strength is having the ability to meet engineering challenges with innovative, cost-effective, and constructible solutions. Design problems are addressed using logical Value Planning techniques that enable us to identify the needs and desires of our client, pinpoint any project constraints, and develop viable solutions. We are pre-qualified with the Georgia Department of Transportation, the Florida Department of Transportation, and various cities and counties throughout the state of Georgia.

NGC

North Georgia Concrete, Inc. is a specialized self-perform Contractor specializing in the turnkey construction of dams, bridges, culverts and industrial/civil concrete structures. Our clients represent a diverse group of municipalities, power producers, commercial contractors and private individuals seeking our qualified expertise relating to concrete structures and civil construction.

Since our inception in 1999 we have built some of the most demanding projects in the Southeast utilizing our experience and work ethic to construct projects in a timely and cost efficiently manner. The strength of our Company is founded in the technical experience of our team member employees.

We are a pre-qualified Georgia Department of Transportation Contractor, Licensed Georgia Utility Contractor, Licensed Contractor for South Carolina and Virginia.

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TEAM QUALIFICATIONS

- Experience working on Design-build projects
- Experience working with GSFIC & GDOT
- Experience working on Higher Education campuses
- Partnering approach means that GSFIC, Albany Technical College, GDOT, and other agencies are also part of our team

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DESIGN PARAMETERS

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DESIGN PARAMETERS

Budget

- $1.25M - Design & Construction

State Highway

- DOT involvement / permitting
- Traffic control
- Right of way setbacks

Active Campus

- Must fit into campus aesthetic
- Protection of students/staff
- Minimize disruption to campus

Existing Utilities

- Overhead power lines
- Storm drainage
- Fiber

ADA Access

- Long ramps vs vertical transportation
- Method of transport to bridge elevation

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THE BRIDGE

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THE BRIDGE

Length
- Minimize length to keep cost down - alignment perpendicular to roadway is the most efficient

Traffic
- Limit the impact on traffic due to construction - prefabricated structure enables rapid placement

Maintenance
- Reduce cost of long term maintenance - self weathering steel is the best choice

Public Protection
- Protect public from objects thrown or falling from bridge and protect pedestrians from falls - provide fencing along perimeter

Protection from Weather
- Since pedestrian's are not protected from weather on the approaches, we elected to design the bridge as uncovered to save on cost

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ABUTMENTS

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ABUTMENTS

Aesthetics

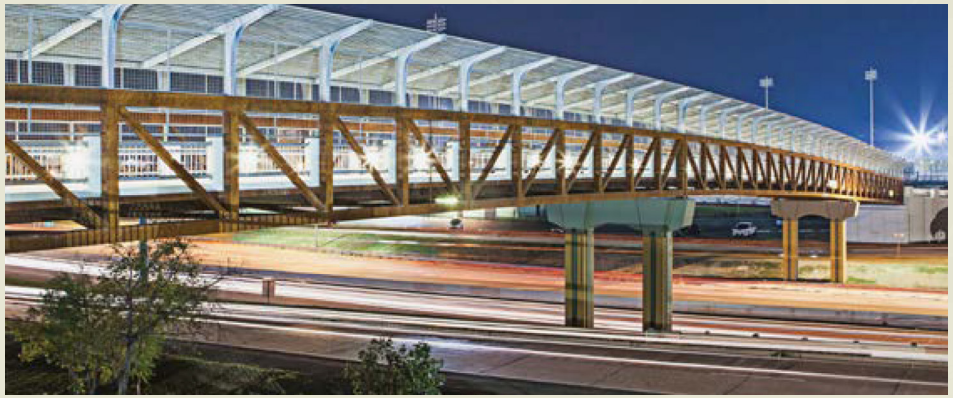
- Match existing campus architecture - block walls & metal roof are both architecturally appropriate and cost effective

Height

- Bridge elevation dictated by minimum GDOT clearances

ADA Access

- Provide access in accordance with ADA requirements while minimizing cost - evaluated access ramp vs elevator
- Ramp is a longer path of travel and more expensive to build
- Elevator is quicker transport and more cost effective - we chose the elevator for this project



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LULA LIFT ELEVATOR

WHAT IS A LULA?

- LULA Stands For Limited Use / Limited Application
- Hybrid between a full-size commercial elevator and a wheelchair lift
- Looks and rides just like any other elevator
- Sole function is to provide handicap accessibility to a building
- Cost - equipment and installation costs substantially less than a commercial elevator
- Footprint - space required is about half of what's required for standard elevators
- Maintenance - the LULA is only required to be maintained every 6 months

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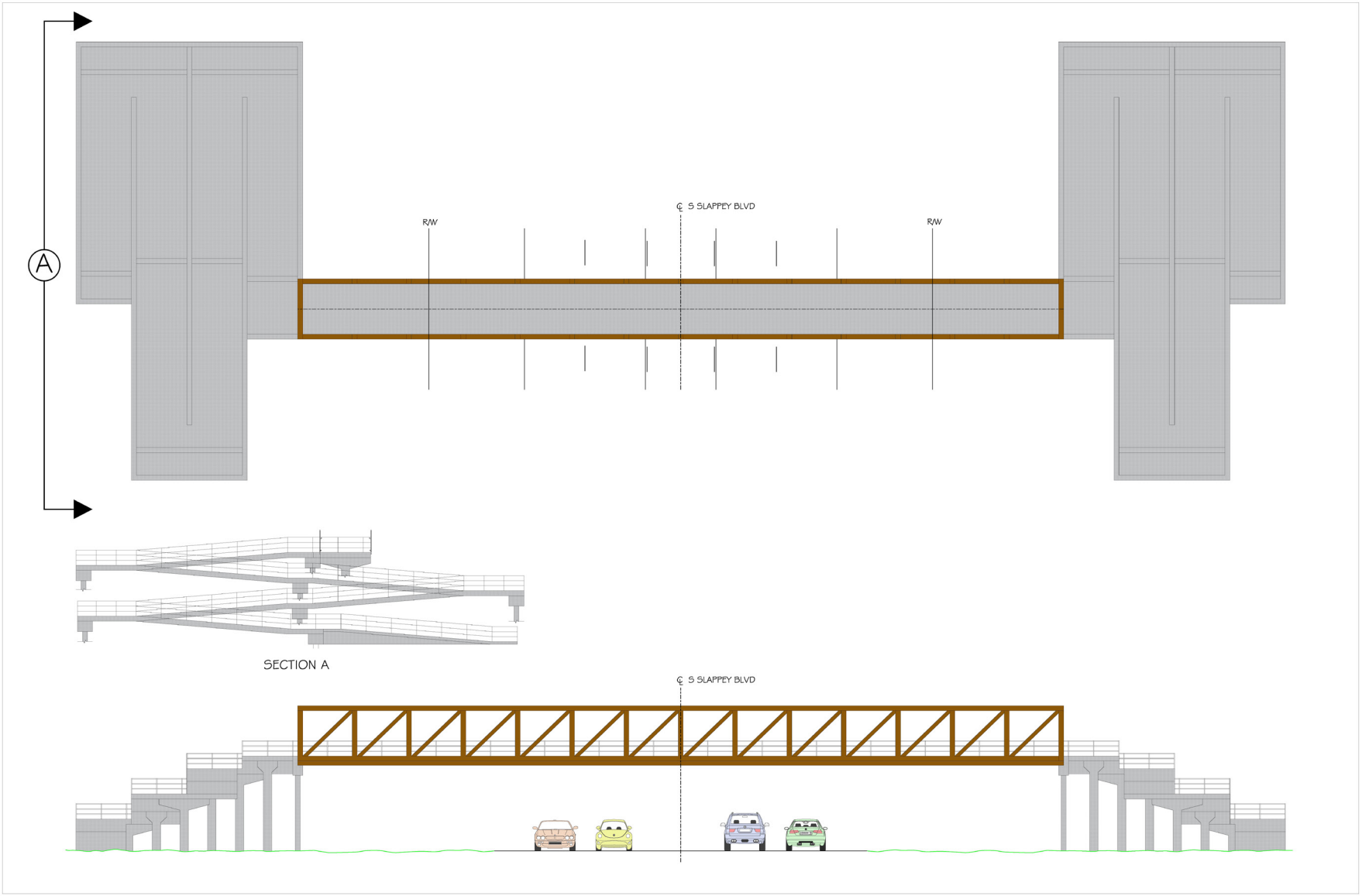
CONCEPTUAL DESIGN | RAMP OPTION



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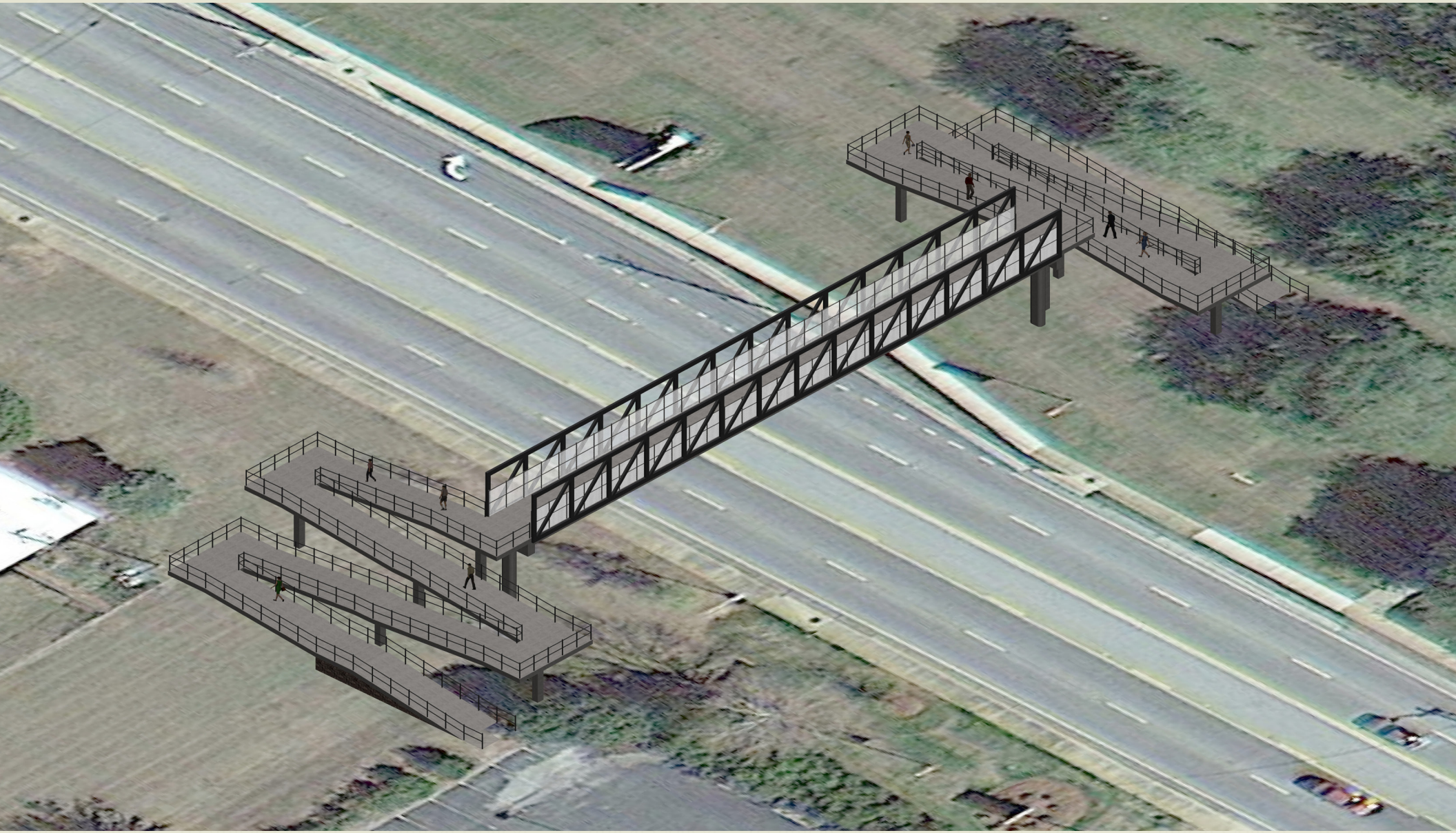
CONCEPTUAL DESIGN | RAMP OPTION



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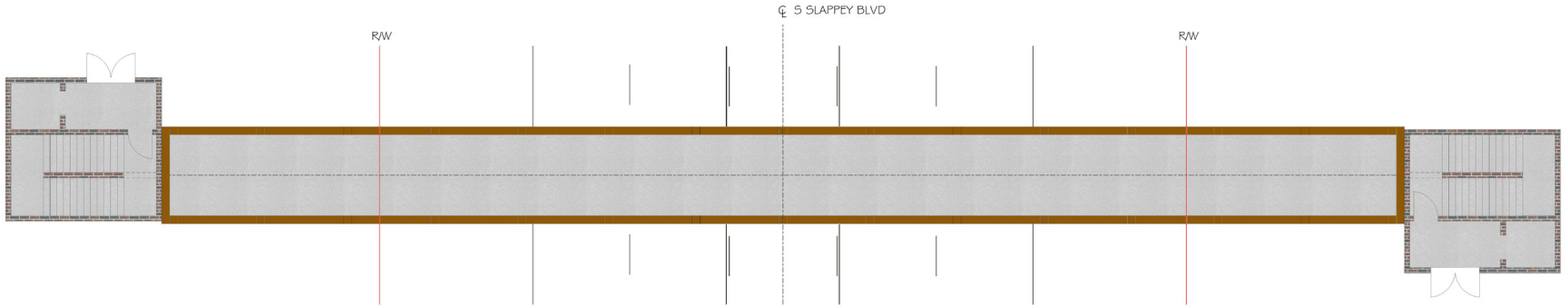
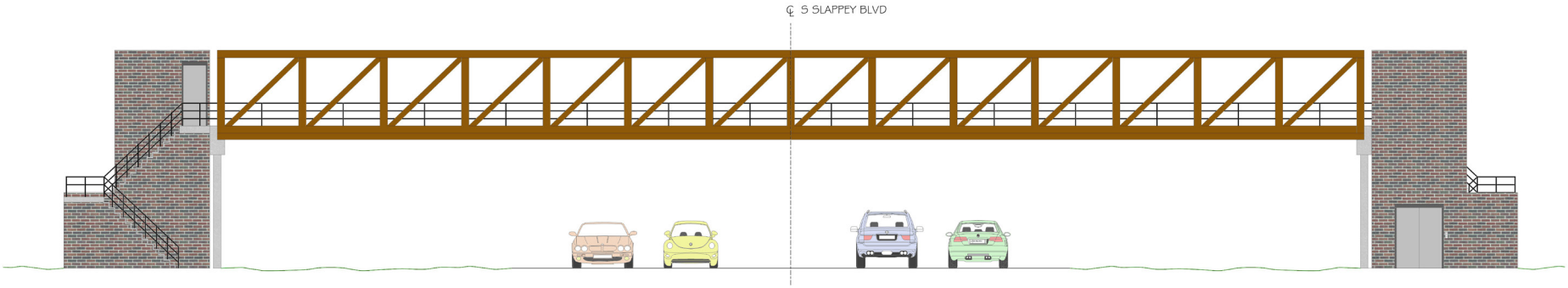
CONCEPTUAL DESIGN | PREFERRED OPTION





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CONCEPTUAL DESIGN | PREFERRED OPTION

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LOCATION

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LOCATION

Relationship to Campus

- Facilitate pedestrian flow

Road Traffic

- Preserve site lines

Right of Way

- Locate behind setbacks

Existing Utilities

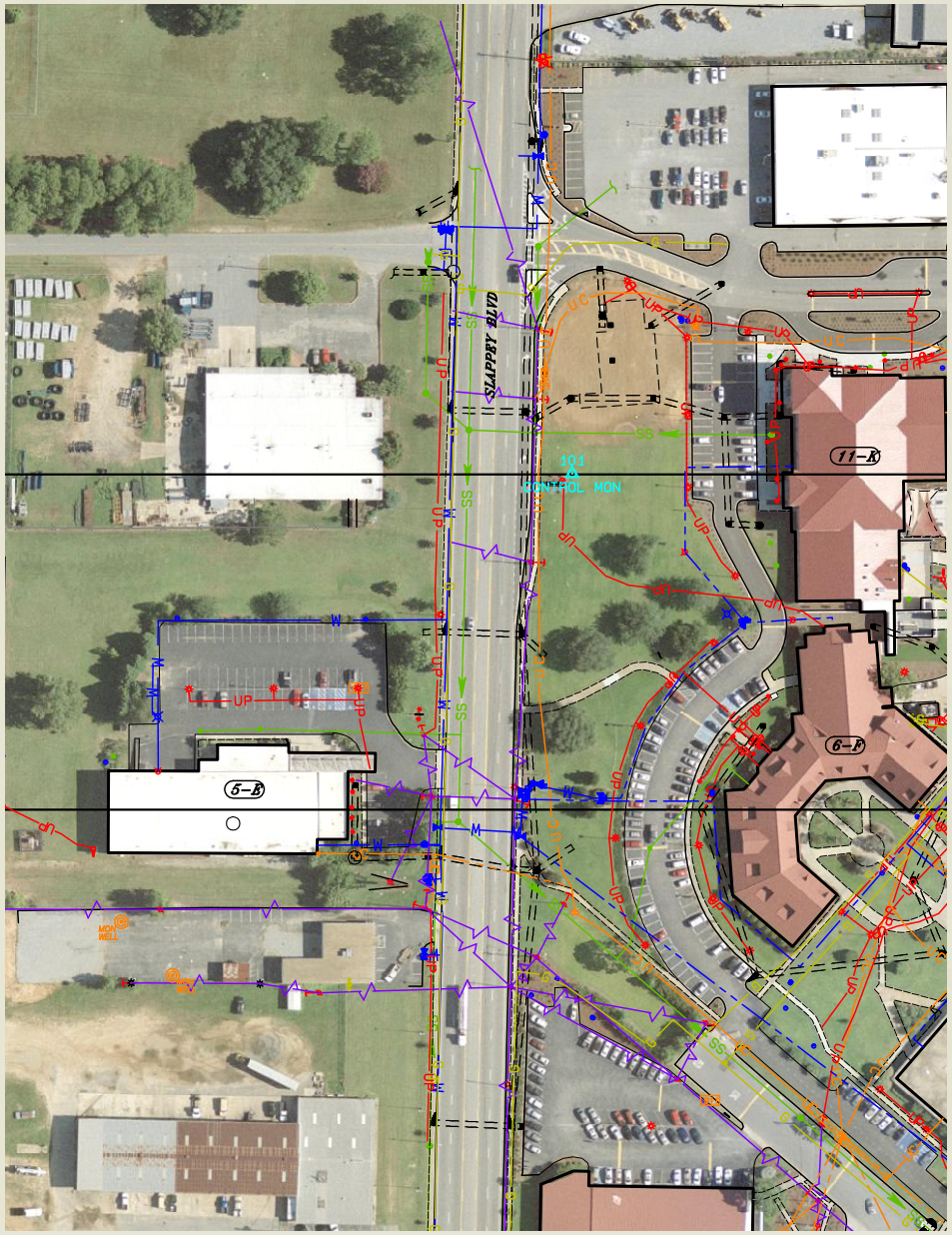
- Minimize impact to reduce costs

Fabrication & Erection

- Location must be near to fabrication site

Site Preparation

- Minimize cost of demo & grading



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