

## Senior Design Project Description

<b>Company Name</b>	<i>Charlotte Douglass Airport</i>	<b>Date Submitted</b>	<i>11/30/2020</i>
<b>Project Title</b>	<i>Airport Overlook Site Design</i>	<b>Planned Starting Semester</b>	Spring 2021

### Personnel

Typical teams will have 4-6 students, with engineering disciplines assigned based on the anticipated Scope of the Project.

Please provide your estimate of staffing in the below table. The Senior Design Committee will adjust as appropriate based on scope and discipline skills:

<b>Discipline</b>	<b>Number</b>	<b>Discipline</b>	<b>Number</b>
Mechanical		Electrical	
Computer		Systems	
Civil	5		

### Company and Project Overview:

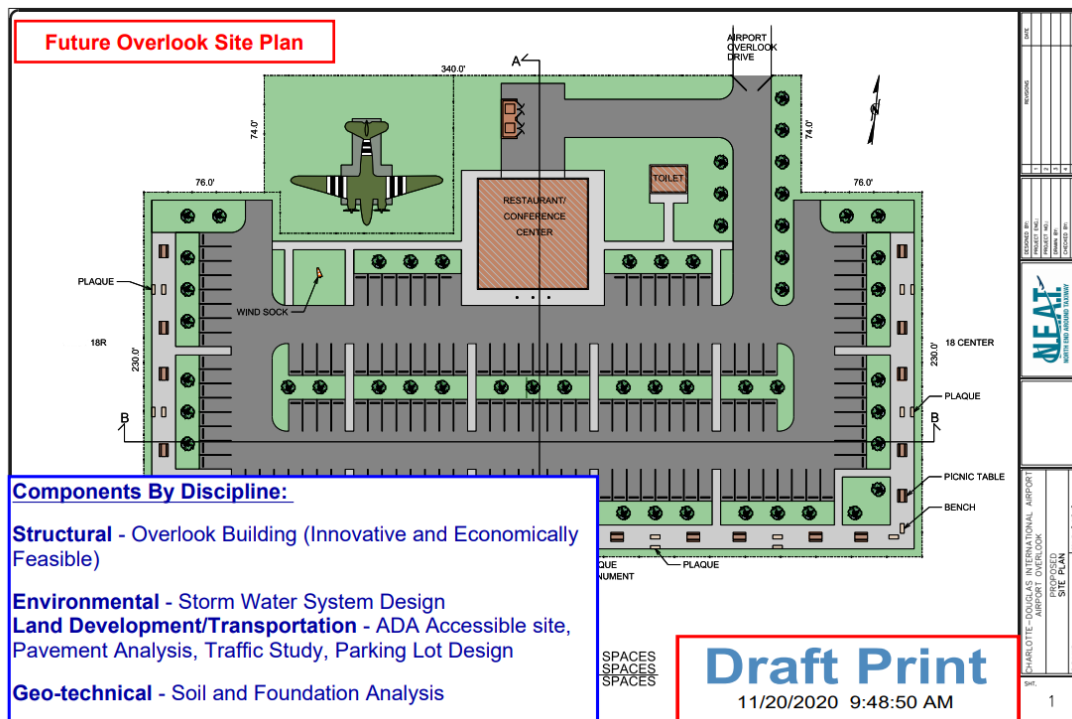
Charlotte Douglas International Airport (CLT) is ranked among the top 10 busiest airports in the world, averaging 1,400 daily aircraft operations. CLT serves approximately 175 nonstop destinations around the globe and welcomes more than 46 million passengers annually including 3.2 million international passengers. The Airport has an annual economic impact of \$23 billion and accounts for 5% of the State of North Carolina's gross product. Charlotte Douglas received the prestigious Eagle Award in 2010 from the International Air Transport Association (IATA) for "Best Airport." It is considered the most distinguished of awards in the aviation industry. CLT was recognized for its quality service and economical value to airline customers.

Community relations are an important focus for the Airport. One of the interactions that is popular with the public is the airport overlook area. This is an area where non-travelling members of the public are allowed to watch planes taking off and landing. Many people who go into aviation are inspired by participating in this activity when they are children. This project's objective is to begin the planning design for the next generation Airport Overlook. This is a one semester project restricted to Civil Engineering students.

### Project Requirements:



This project will prepare designs for particular aspects of the Civil engineering designs required for this project.





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**Expected Deliverables/Results:**

- Design packages from teams as defined by the Civil Engineering Faculty for developing, Structural, Geo-Tech, Land Development/Transportation and Environmental packages.

**Disposition of Deliverables at the End of the Project:**

Designs to be presented at the Senior Design Expo and then Provided to the Industry Supporter.

**List here any specific skills, requirements, specific courses, knowledge needed or suggested (If none please state none):**

- Civil Engineering only