



Associated Schools of Construction  
2025 Student Competition  
Concrete Solutions Problem Statement

## Introduction

Lithko Contracting is proud to sponsor the 2025 “Concrete Solutions” ASC Student Competition problem. Welcome, and thank you for your participation.

Concrete has been a cornerstone of construction for over 2,000 years. Nearly every project includes concrete in some form, and for many, it serves as the primary structural material. Modern ready-mix concrete provides tremendous flexibility to meet diverse architectural and sustainability demands.

The ASC Competition offers students an immersive experience that simulates real-world challenges in construction. Participating in the Concrete Solutions Competition provides a unique glimpse into the dynamic environment of self-performing subcontractors.

This competition is a valuable career development opportunity. It allows students to demonstrate technical ability, leadership skills, and the ability to collaborate—while networking with potential employers and construction professionals. Congratulations on choosing to compete!

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## Problem Overview

Your company is invited to submit a proposal for the **Concrete Package** of a warehouse facility located in a growing urban area. The scope includes both structural and non-structural elements such as:

- Foundations
- Slabs-on-grade
- Tilt-up wall panels

The project will require exceptional attention to detail, safety, quality, and creative constructability approaches.

Lithko Contracting has been awarded the Concrete Package for this project. We are seeking a local subcontractor to perform this scope of work on our behalf. All work must be executed to meet Lithko’s standards. Post-bid interviews will be conducted to ensure the right partner is selected.

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## Competition Expectations

Teams will be evaluated based on the following components:

- Constructability review
- Quantity takeoff accuracy
- Basic estimate development
- Concrete placement and wall erection sequence.
- Duration schedule and manpower plan.
- Detailed safety plan addressing site-specific and task-specific risks
- Evaluation of forming systems, equipment, and concrete delivery methods

**Note:** This is not a preconstruction exercise. The focus is on *constructability* and *creative problem solving*.

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**Required Deliverables**

**1. Statement of Qualifications (SOQ) - 5 Points**

- Actual student resumes
- Organizational chart with defined team roles and responsibilities
- Project approach

A detailed RFQ will be distributed one week before the competition to assist in preparing your SOQ.

**2. Proposal - 25 points**

- Completion of provided bid form
- Include clarifications and exclusions

**3. Constructability Plan - 25 points**

- Construction Pour and Erection Sequence
- Aligns with the provided project schedule
- Will be validated during feedback sessions

**4. Presentation - 25 points**

- Includes a team presentation and open discussion

**5. Identify a Concrete Solution(s) - 20 points**

- Identified Key Issue(s)
- Presented a Viable Plan or Solution(s)

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**Scoring Criteria**

- Statement of Qualifications
- Proposal content and accuracy
- Constructability Plan
- Post-bid interview performance
- Bonus points for a creative and well-justified “Concrete Solution”

A detailed breakdown of scoring will be provided after the competition.



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### Important Notes

- Participation is limited to **seven teams**, accepted on a **first-come, first-served basis**.
- All deliverables must be submitted electronically.
- Awards will be presented to:
  - 1st, 2nd, and 3rd place teams
- Full competition information can be found here:  
<https://region4.ascweb.org/student-competition/>