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## MODELING KINNICK STADIUM WIND CONDITIONS

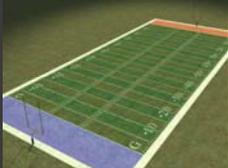
### Introduction

- No Current Computer Model
- Home of Iowa Football Team
- On field conditions can be vital to coaching decisions and the outcome of games
- Current method of watching flag is unreliable and inaccurate



### Project Goals

- Model The Playing Field Wind Conditions
- Model 3 Different Wind Directions @ V=10mph
  - North
  - North West
  - West
- Model 3 Different Wind Velocities
  - 5, 10, and 20 mph
- Validate Model



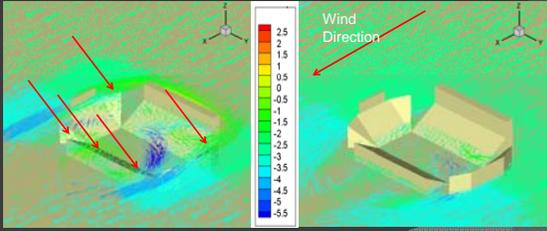
### First Attempt

- Use stadium blueprints along with Pro E and import model into Gambit



### West Wind Field vs. Flags

- Flag Height
- Field Height



### West Wind Field Recirculation

- Wind Velocity 10 mph

