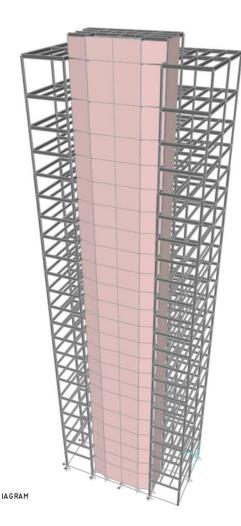
IPRO 315 DESIGN OF A LARGE SCALE STRUCTURE



Presented by: Carmen Aguilar-Wedge Namrata Hegde Shuaib Hadi

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Team Members: Oladipo Animashaun Alex Baur Michael Cullen Yoojee Kim Steve Kuo Christopher Lee Yongdoo Lee Karol Rybaltowski Yousef Shadi



•PROJECT BACKGROUND INFORMATION & OVERVIEW

•TEAM ORGANIZATION

•PROJECT ORGANIZATION

•PROGRESS

•FUTURE GOALS



• IPRO 315 DESIGN OF A LARGE SCALE STRUCTURE

BACKGROUND INFORMATION & OBJECTIVES

Spring 2009 Preliminary Design. Analysis found structural deficiencies.

Fall 2009

The 22 story hotel will be re-designed and analyzed. The team will be producing various design and structural drawings representative of the project and operation of the building.



STRUCTURAL

ARCHITECTURAL

PHASE 1

- SAP2000 MODEL
- LOAD CASES
- PRELIMINARY STEEL DESIGN
- FLOOR PROGRAM
- FLOOR PLANS
- FINALIZE DESIGN



- FINALIZE LOADS
- FINALIZE MODEL
- DESIGN STEEL
- FOUNDATION

- GREEN ROOF DESIGN
- FAÇADE DESIGN
- AESTHETIC DESIGN
- FINALIZE SCHEDULE



• FINALIZE SCHEDULE FINILIZE PLANS • SCALE MODEL

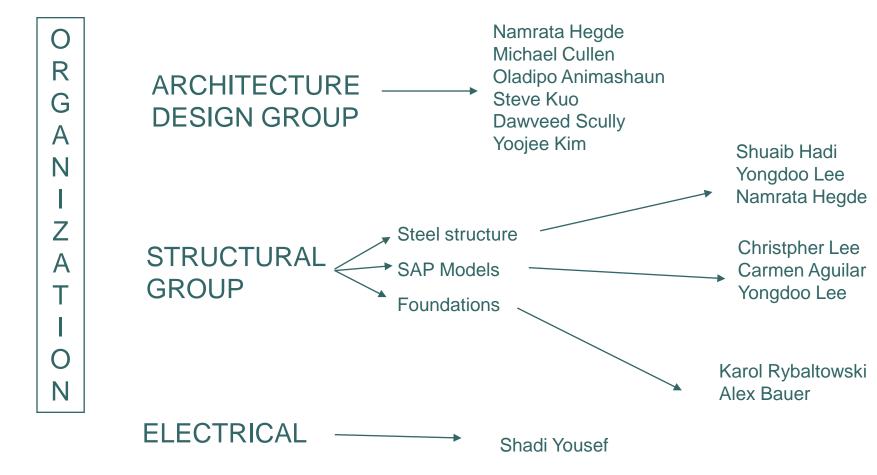


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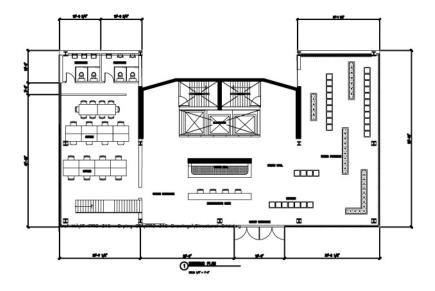
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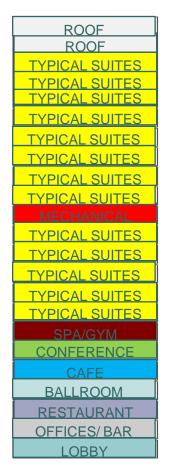




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MOVED THE CORE INORDER TO ACHIEVE BUILDING FLOOR EFFICIENCY AND ALSO SOLVE THE STRUCTURAL DEFICIENCIES



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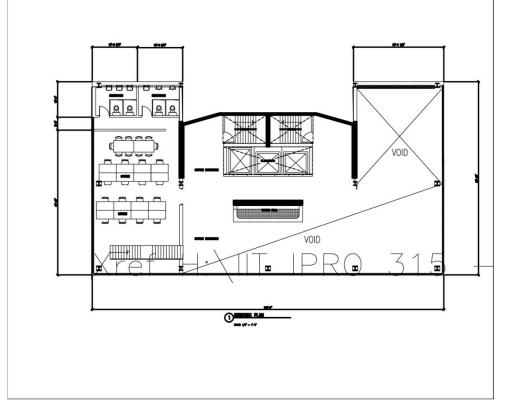
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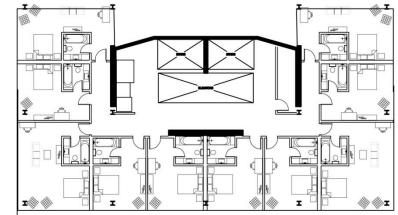
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• • • IPRO 315 DESIGN OF A LARGE SCALE STRUCTURE

- Dead and live loads have been calculated
 - SAP Modeling in Progress
 - Structural calculations using Matcad were done to design a composite beam system

STRUCTURAL

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- Preliminary Design of Structural members is in progress
- CAD Drawings of each floor is in progress

IPRO 315 DESIGN OF A LARGE SCALE STRUCTURE

 Continued collaboration among team members to fix Structural deficiencies

- Design of Load bearing members
- Design of a foundation system
- Fix torsional problem if it may arise

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