

SAP SHEAR WALL MODEL

MAJOR IDEAS INCORPORATED

Architectural

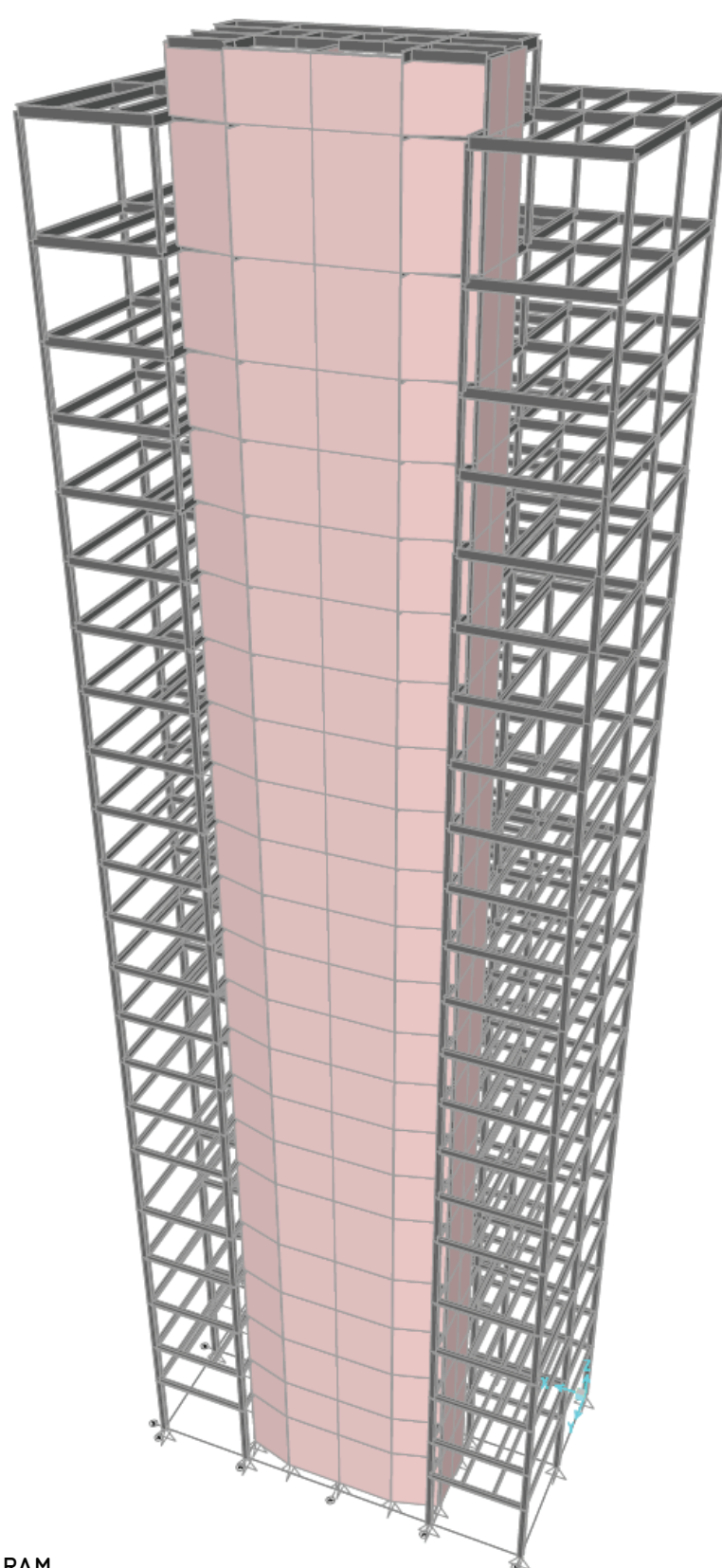
- Kitchen and formal restaurant
- Exercise room and spa area
- One floor for hotel administrative offices
- Green roof and outdoor area at the top floor

Structural

- Concrete spread footings and caissons for the foundation
- Reinforced concrete shear walls forming the core of the building, designed to resist gravity and lateral loads imposed on the structure
- Steel columns and composite steel beams designed to resist multiple loads

Mechanical

- Heating Ventilation and Air Conditioning
- Mechanical Electrical and Plumbing systems
- Electrical equipment and accessories



Building Program Diagram_section



Floor Heights:

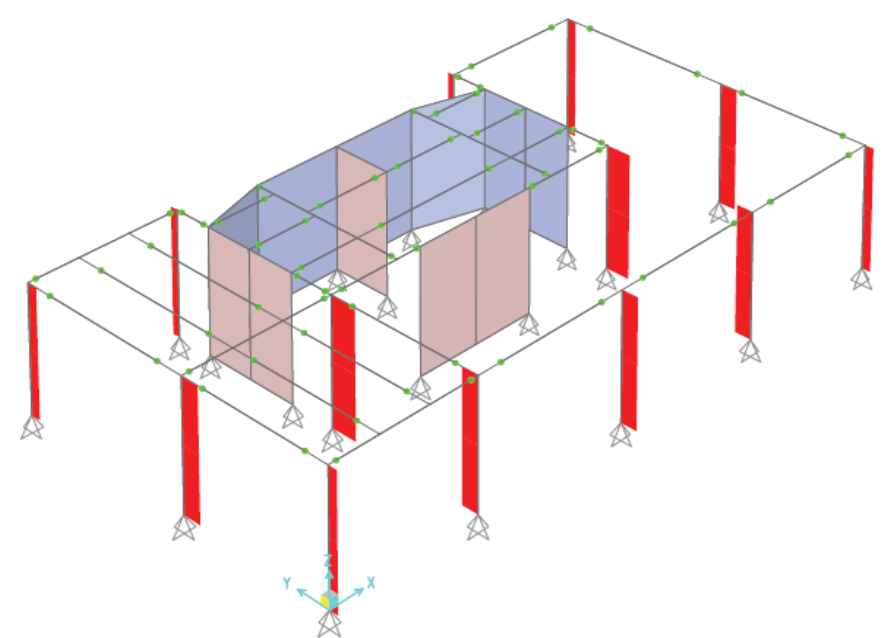
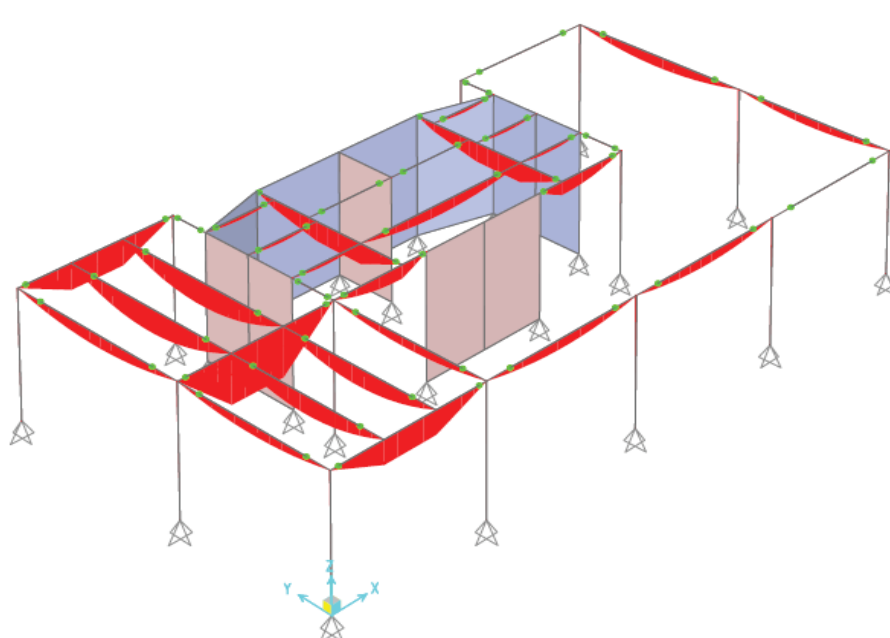
- Hotel rooms: 13'
- Ballroom: 19'
- Restaurant: 16'
- Cafe: 13'
- Mechanical/Security: 19'
- Conference Rooms: 16'
- Gym: 16'
- Offices: 13'
- Lobby: 19'

Building Program Layout:

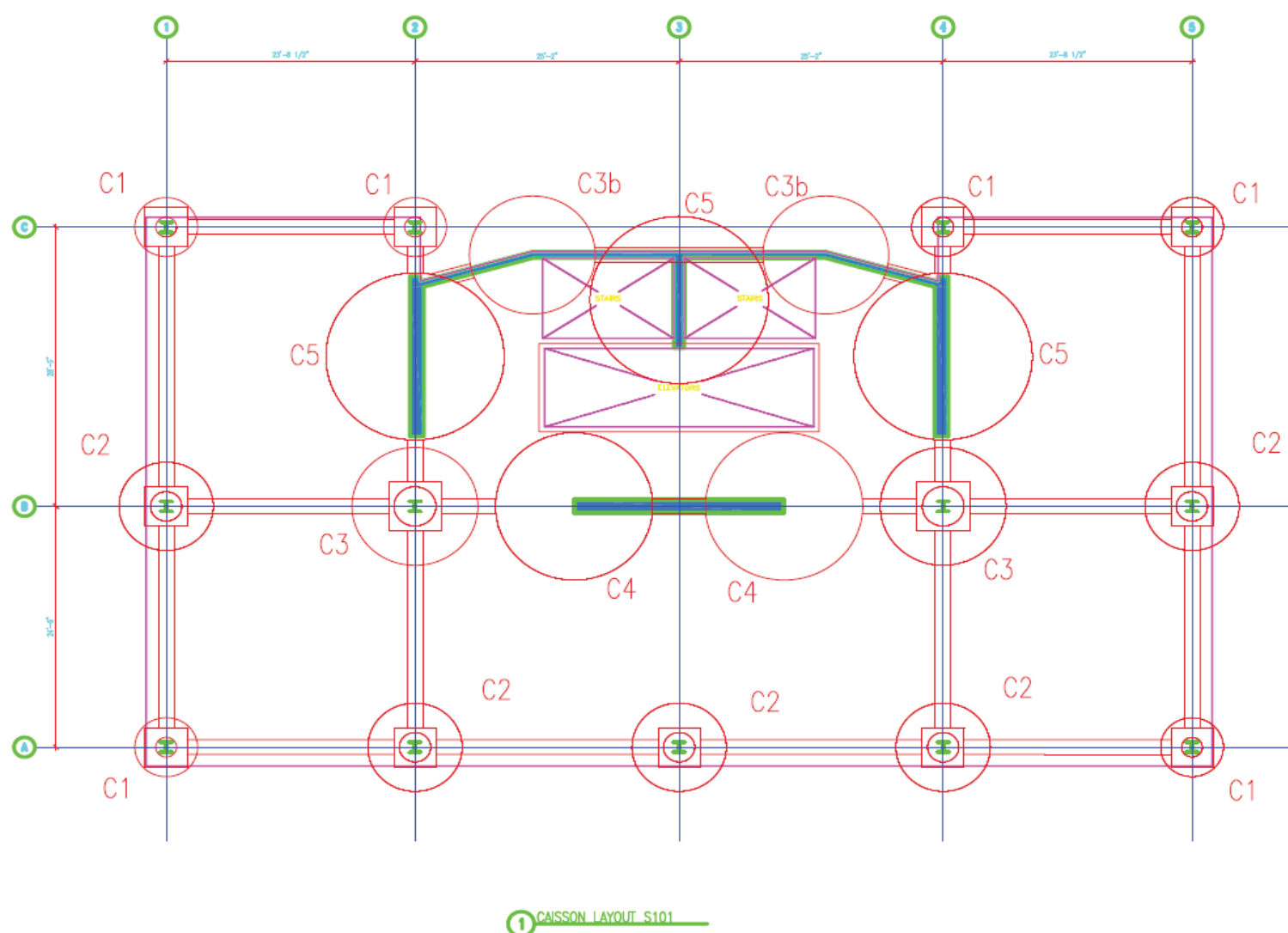
- Hotel rooms: (floors) (A-107) - 9,12,15,18 (A-108) - 10,13,17,20 (A-109) - 7,8,14,16,19
- Ballroom: floor 22
- Restaurant: floor 21
- Cafe: floor 11
- Mechanical/Security: floor 6
- Conference Rooms: floor 5
- Spa/Locker Rooms: floor 4
- Gym: floor 3
- Offices: floor 2
- Lobby: floor 1

MOMENT FLOOR DIAGRAM

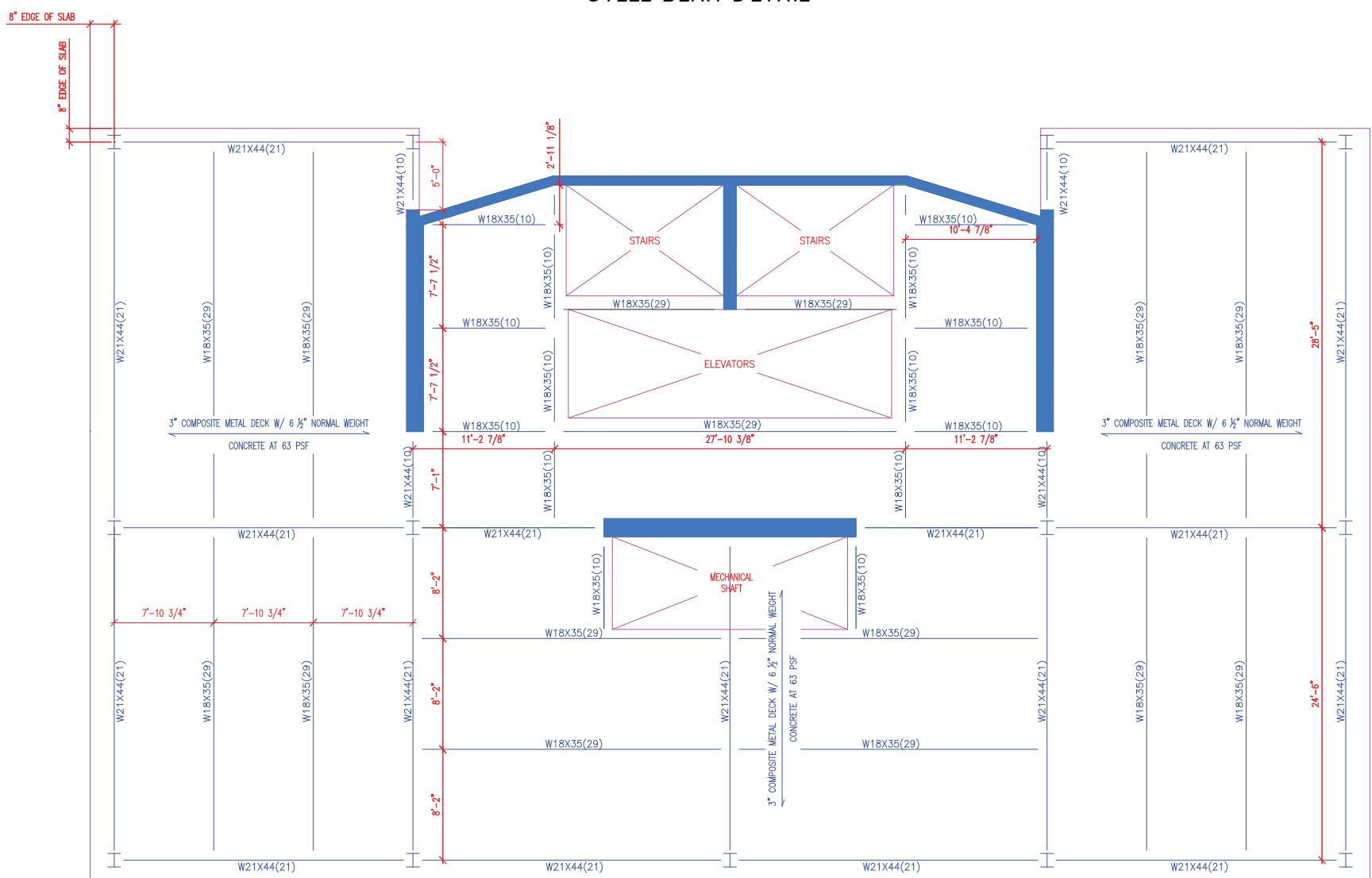
AXIAL LOAD FLOOR DIAGRAM



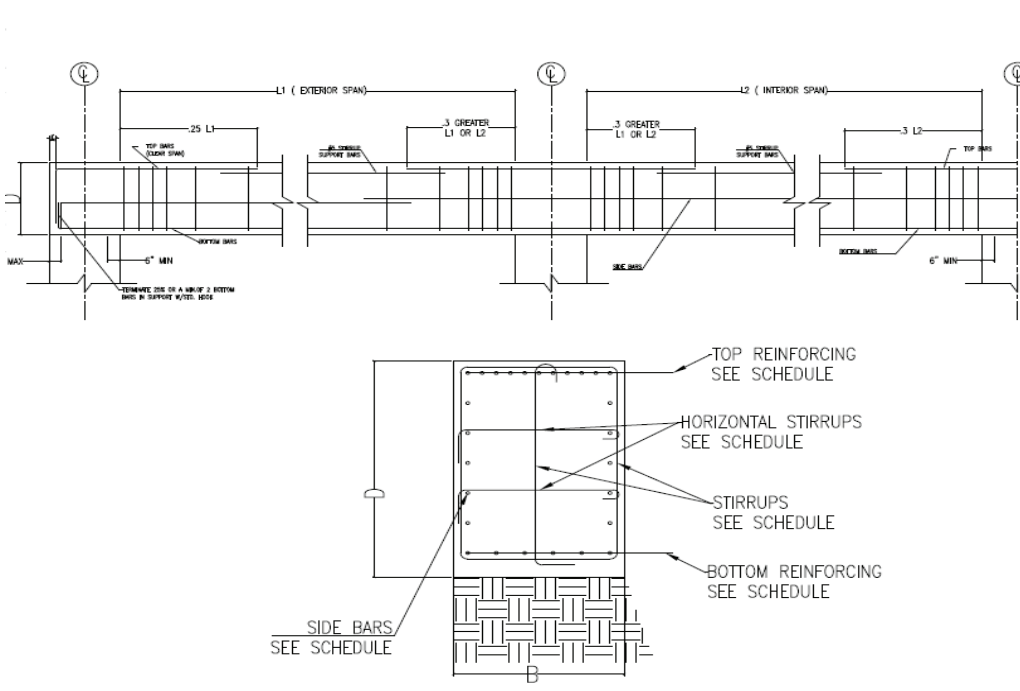
FOUNDATION DESIGN



STEEL BEAM DETAIL



CONCRETE BEAM DETAIL



FOUNDATION CAISSON DETAIL

