LIGHTING DESIGN CHECKLIST

By Jennifer Ramirez 18 September 2016

Below is a suggested checklist of how and when to implement design strategies to improve daylighting.

Topic	Design Type	Discipline
Master Planning Phase		
Building Orientation	Master Plan	Master Planner
Identify Pedestrian Pathways	Master Plan	Master Planner
Concept Level Design Phase		
Building Orientation *Northern Hemisphere an east-west orientation is desirable.*	Site Design	Architect / Civil
Identify Site Constraints and Environmental Conditions	Site Design	Architect / Landscape Architect / Civil
Arrange floor plan to optimize the use of daylighting	Building Design	Architect / Interior
Identify Structural System to Coordinate with Daylighting approach	Building Design	Architect / Structural Engineer
Intermediate Design Phase		
Provide daylighting controls on artificial lighting	Building Design	Electrical
Provide artificial lighting that complements the daylighting design	Building Design	Architect / Electrical
Provide brighter interior finishes	Interior Design	Architect / Interior
Side Lighting 1. Provide perimeter daylighting zones 2. Include Clearstories 3. Provide horizontal light shelves on south facing windows 4. Provide vertical light shelves on west facing windows 5. Minimize direct-beam sunlight onto work spaces	Building Design	Architect
Select Appropriate Glazing Assembly to minimize glare and solar heat gain	Building Design	Architect
Top Lighting 1. Provide Roof apertures for daylighting where appropriate. 2. Optimize skylight spacing 3. Diffuse daylight entering the building through roof apertures.	Building Design	Architect
Final Design		
Verify and Validate the Design for Energy Compliance Requirements	Building Design	Architect/ Electrical / LEED POC
Construction		
Commission Daylighting Controls ASHRAE Building Acceptance Testing or LEED Fundamental Commissioning	Building	Commissioning CxA and USACE COR