

# Documenting A Lighting Plan

§ Concept

§ Drawing / Documentation

- *Layout*
- *Symbols*

§ Fixture Specifications

- *Fixture Descriptions*
- *Fixture Cuts / Mnfrs Submittals*
- *Fixture Details*

# Rendering Light



# Light and Air



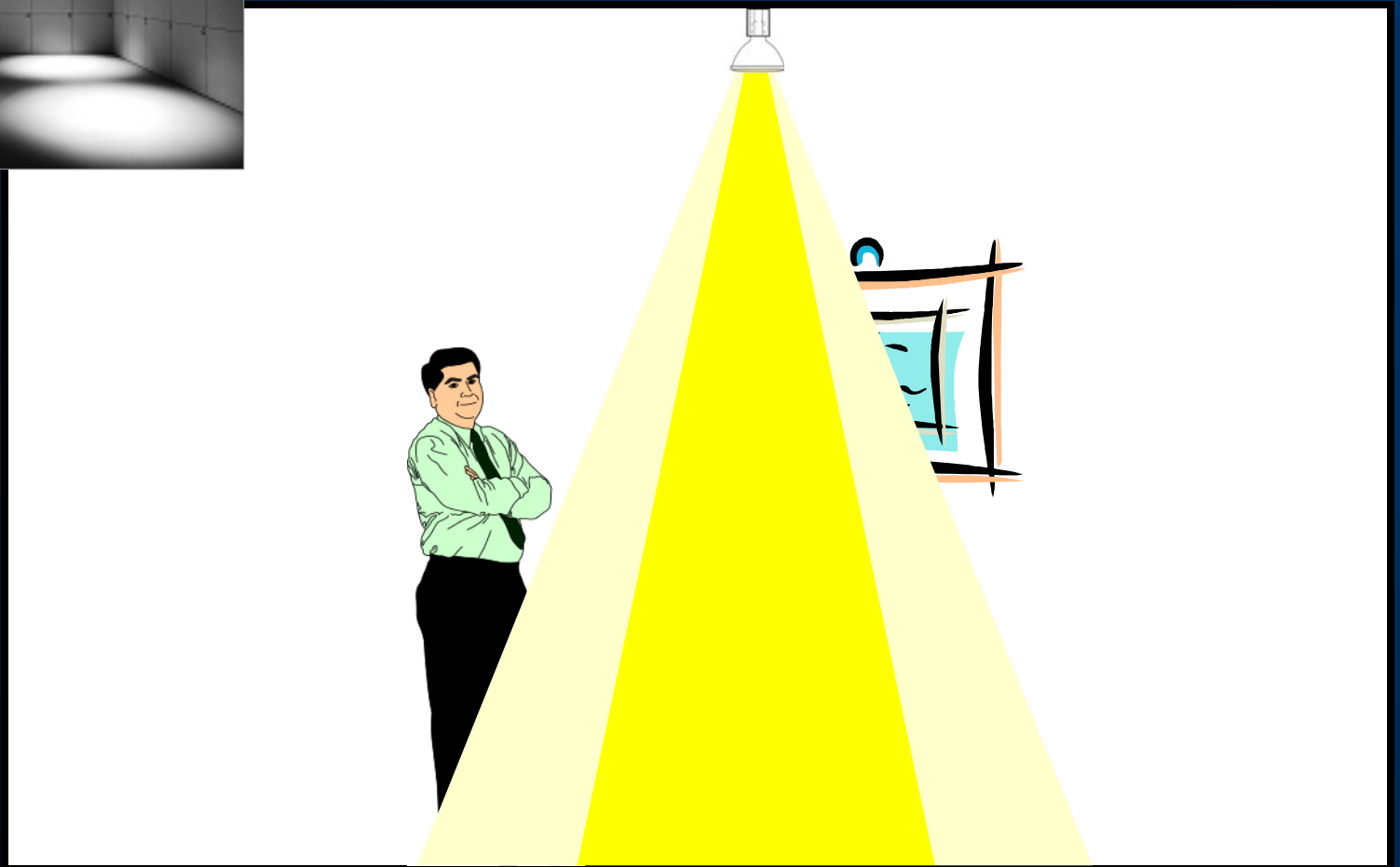
# Light and Air



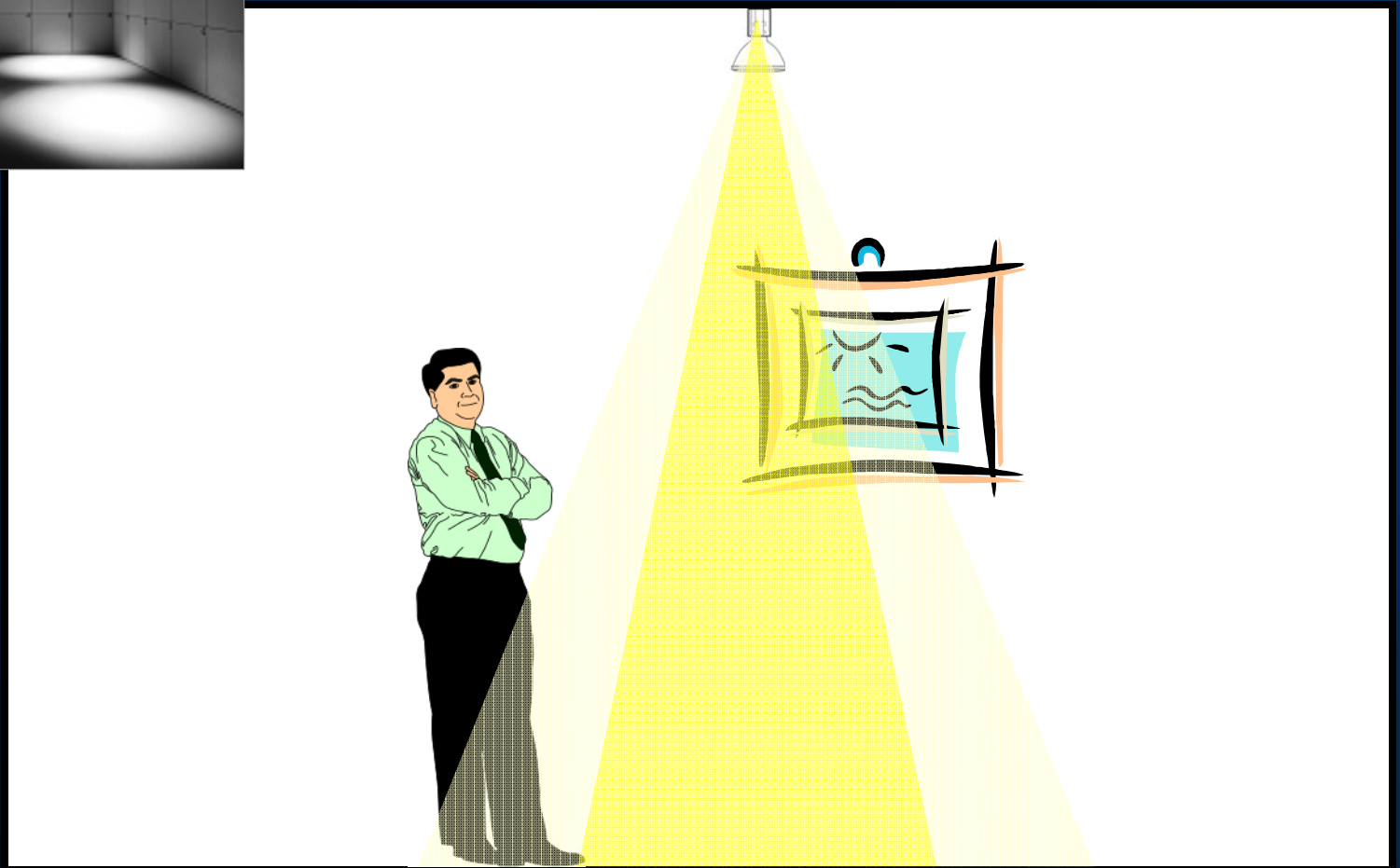
# Light and Air



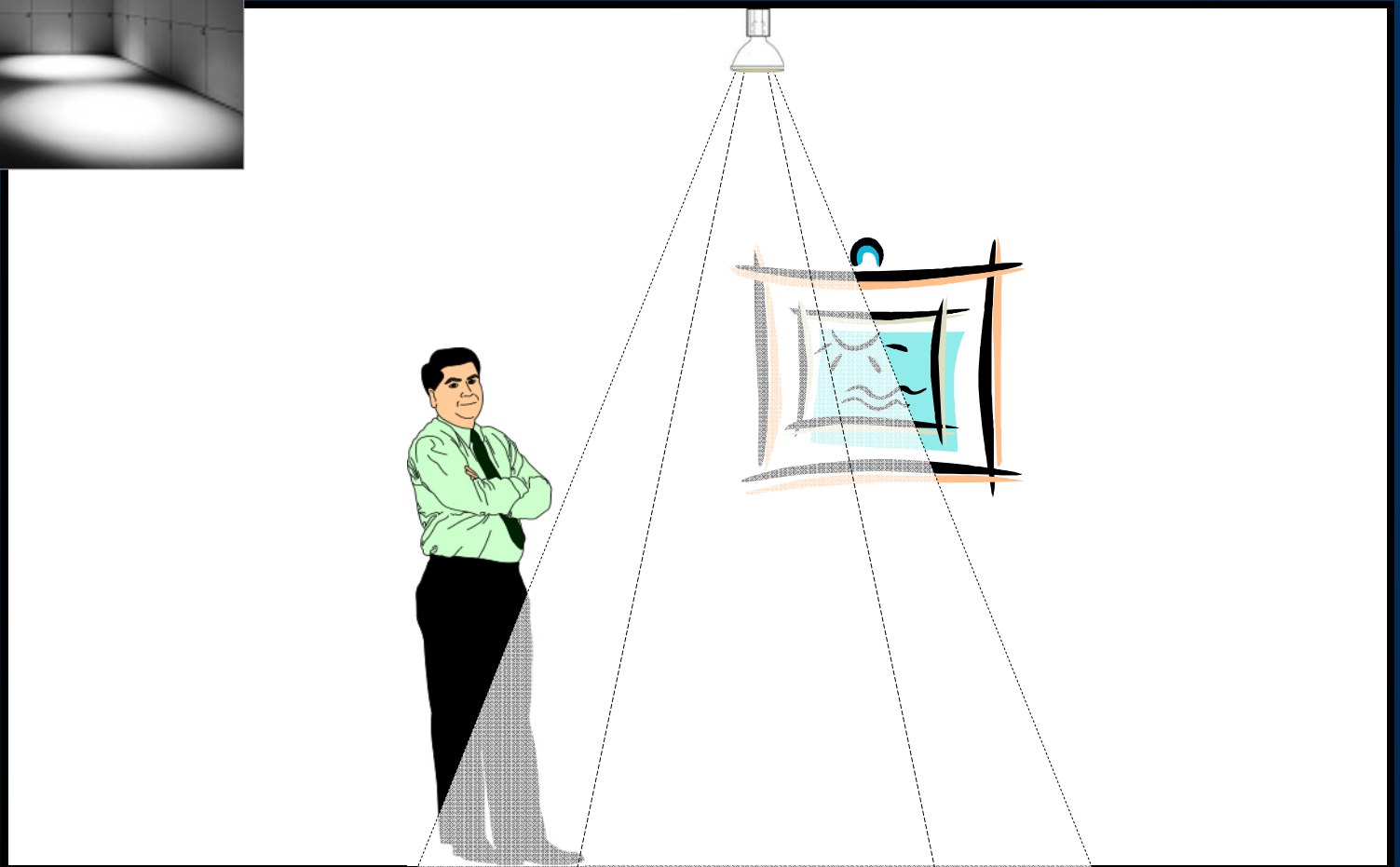
# Documenting Light



# Documenting Light

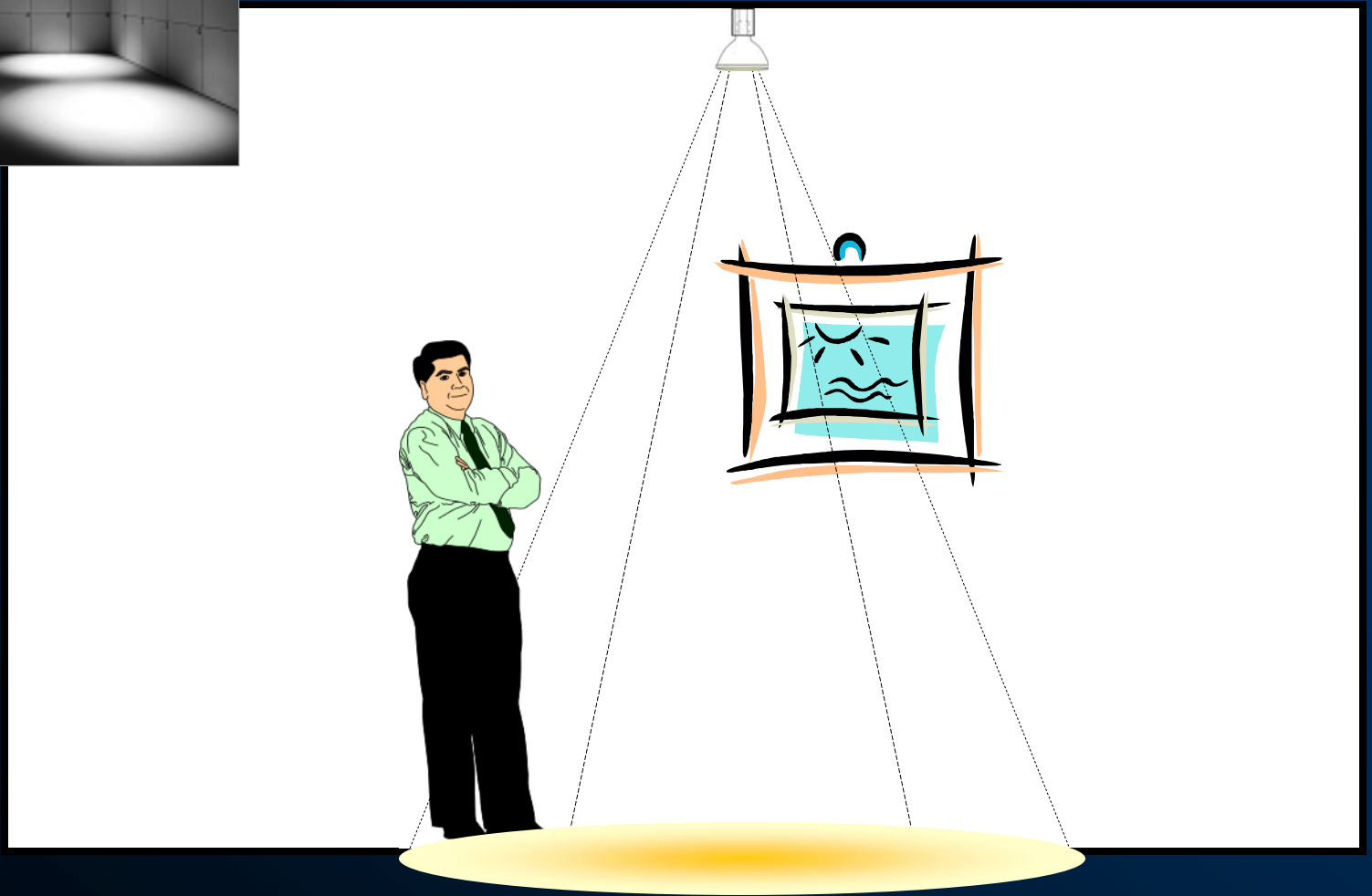


# Documenting Light

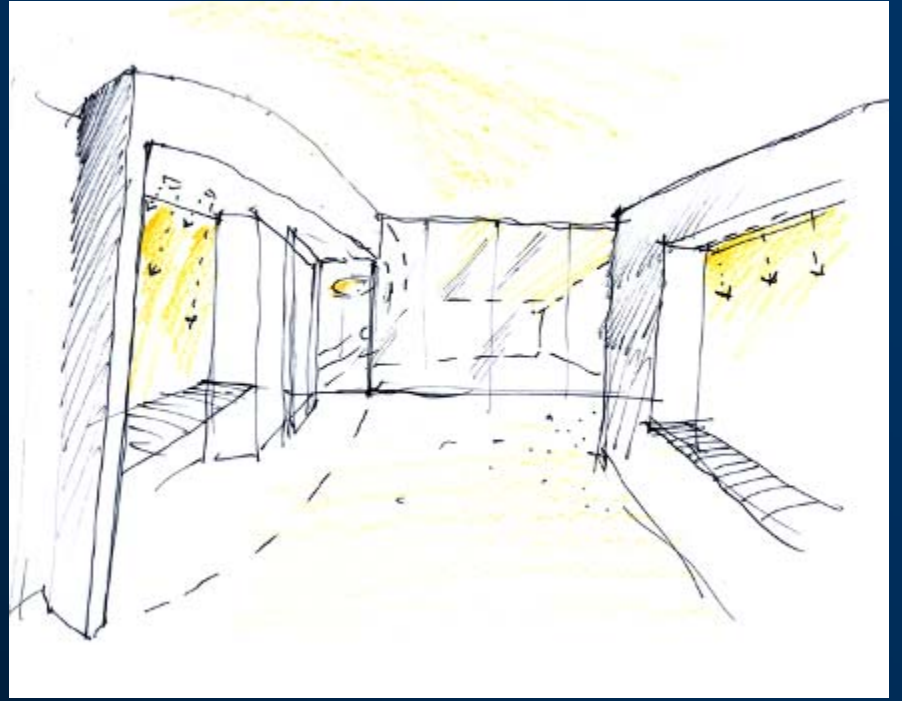
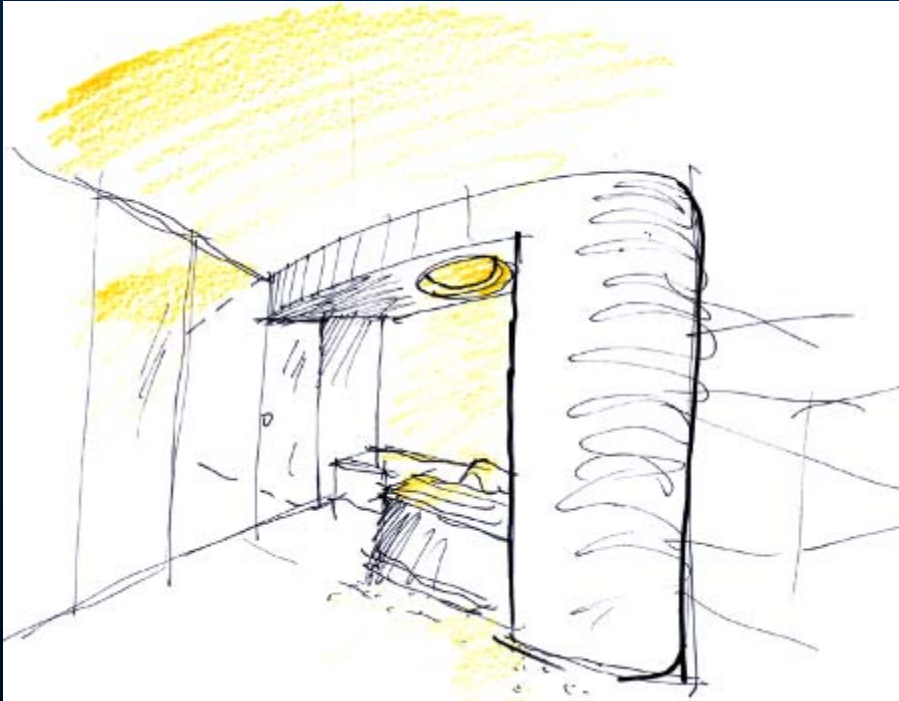




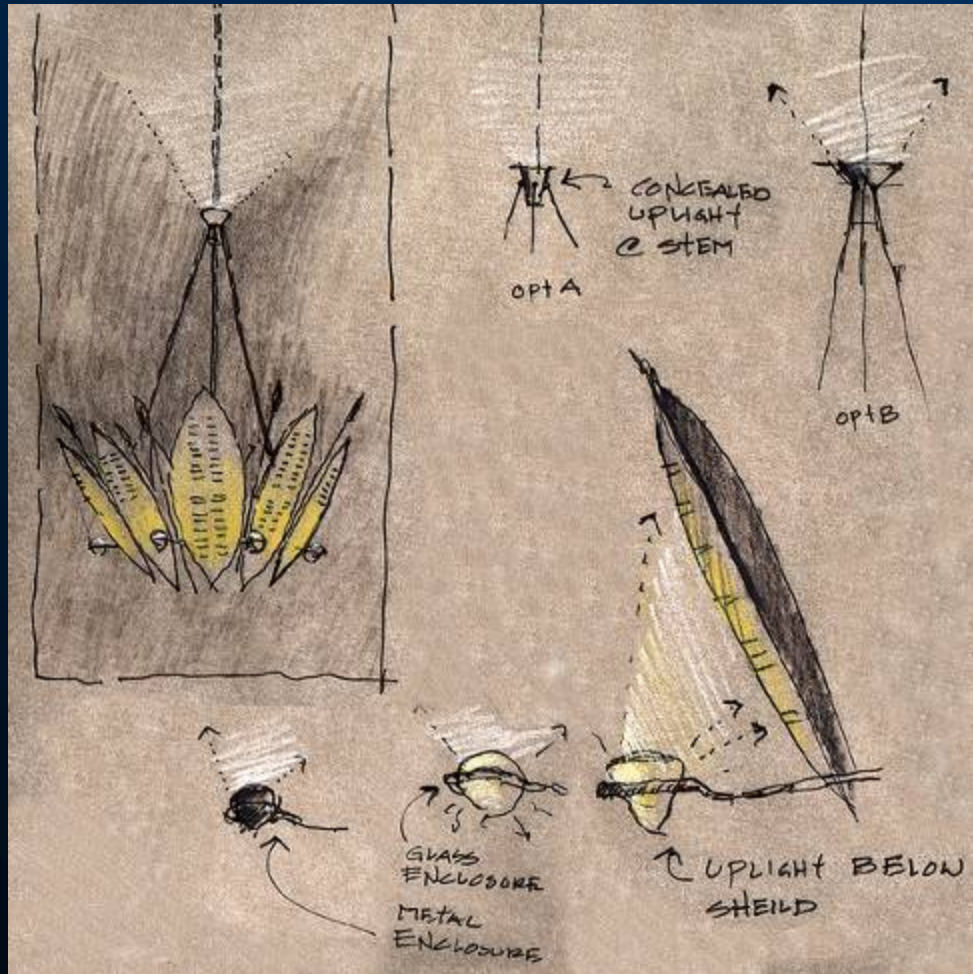
# Documenting Light



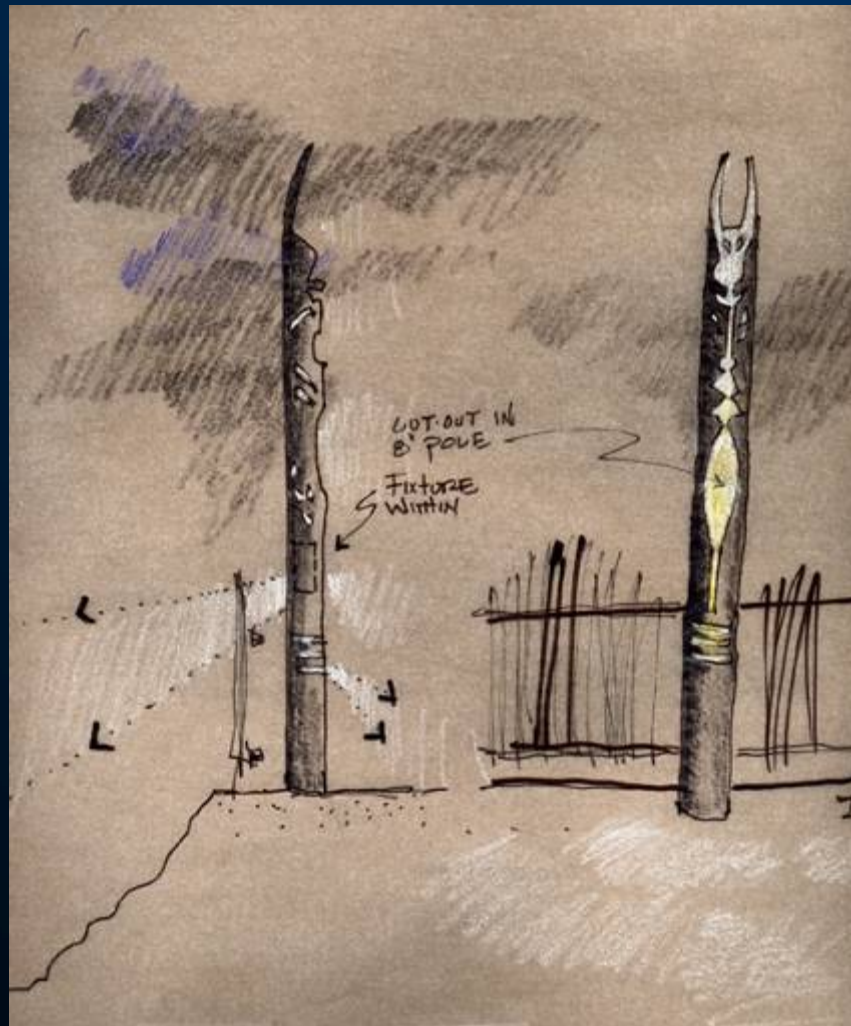
# Documenting Light Concepts



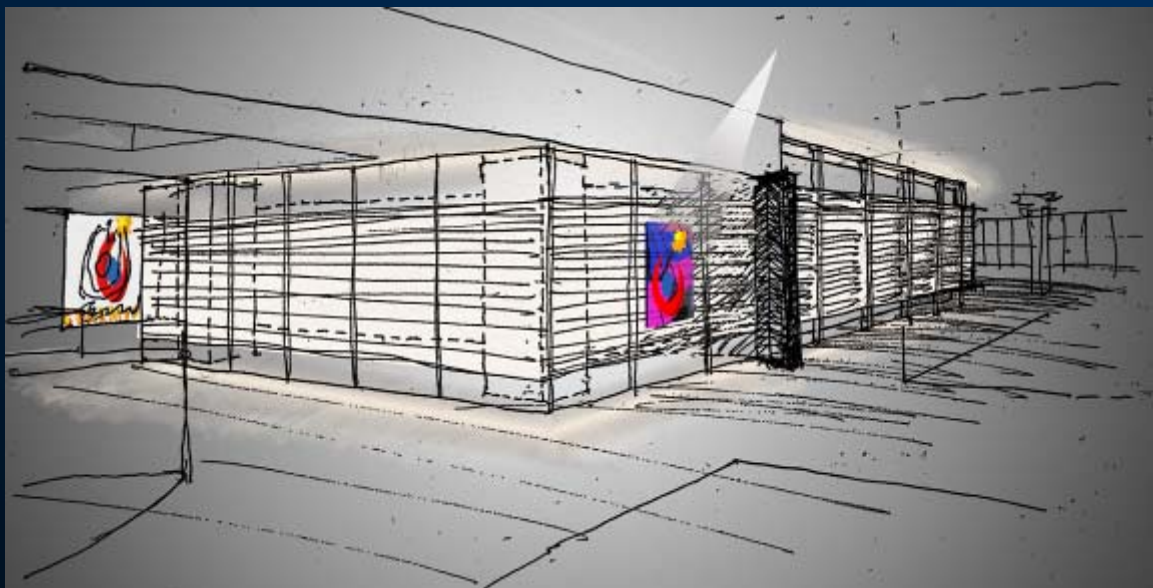
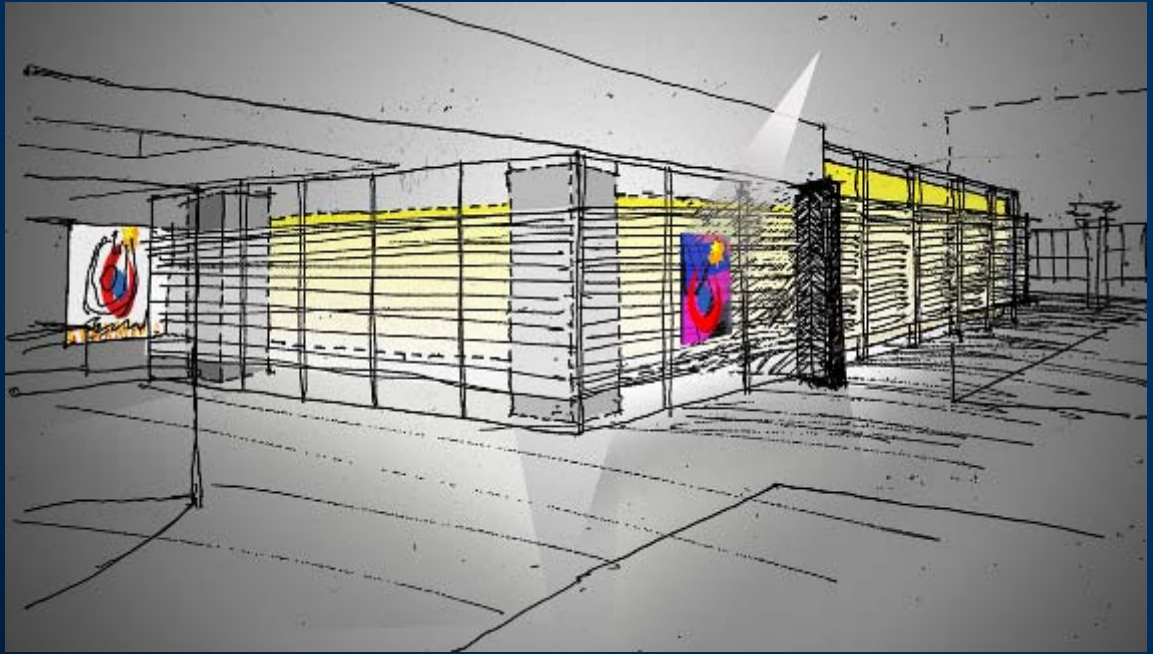
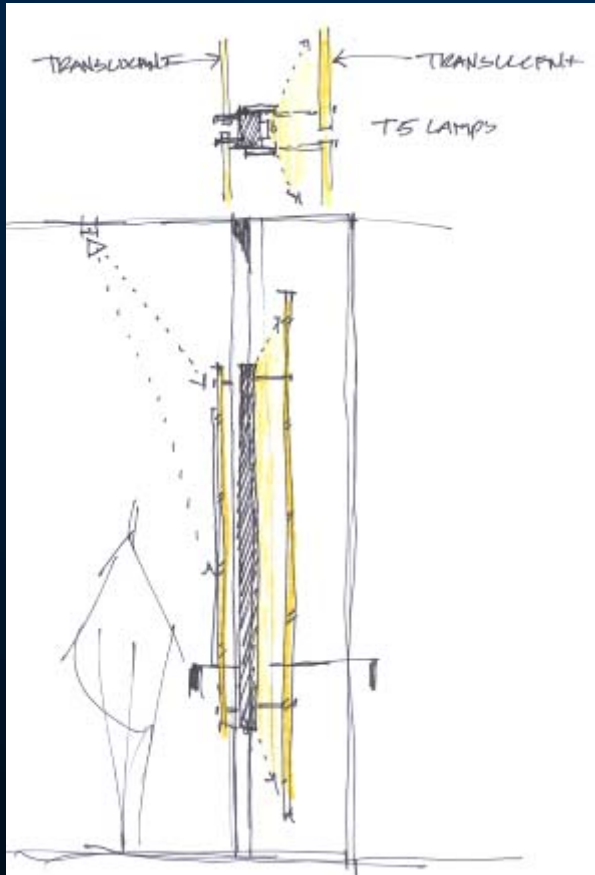
# Documenting Light Concepts

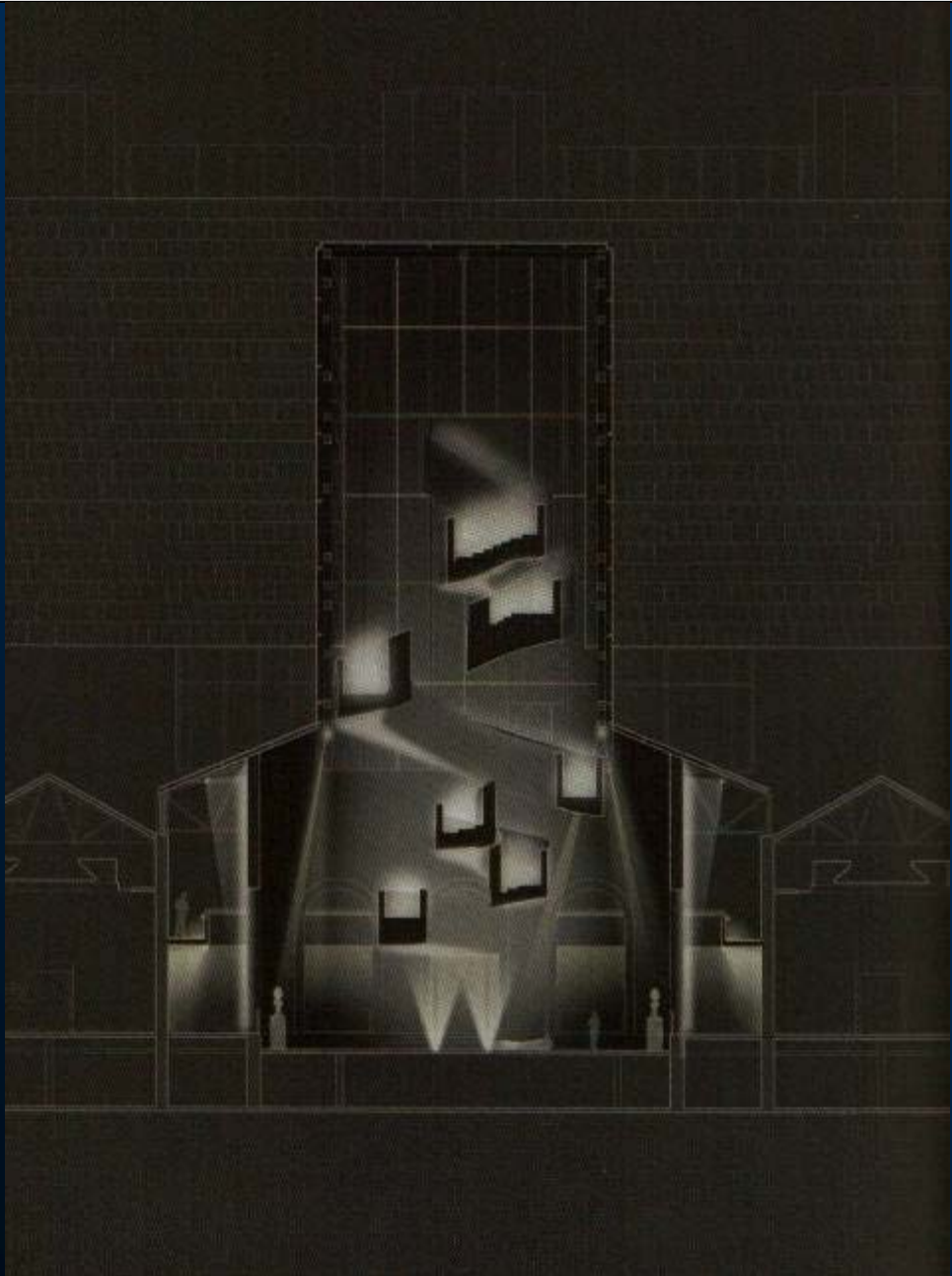
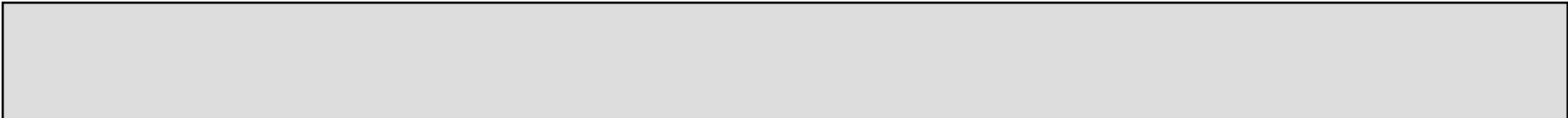


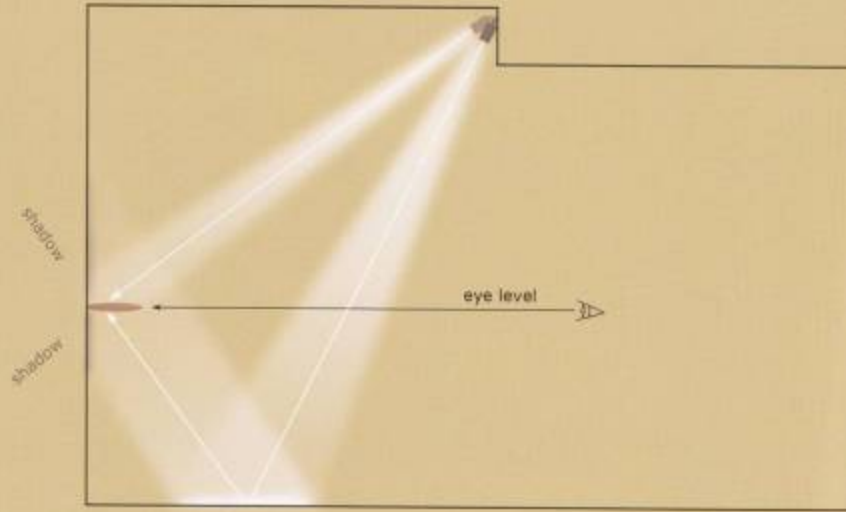
# Documenting Light Concepts



# Documenting Light Concepts



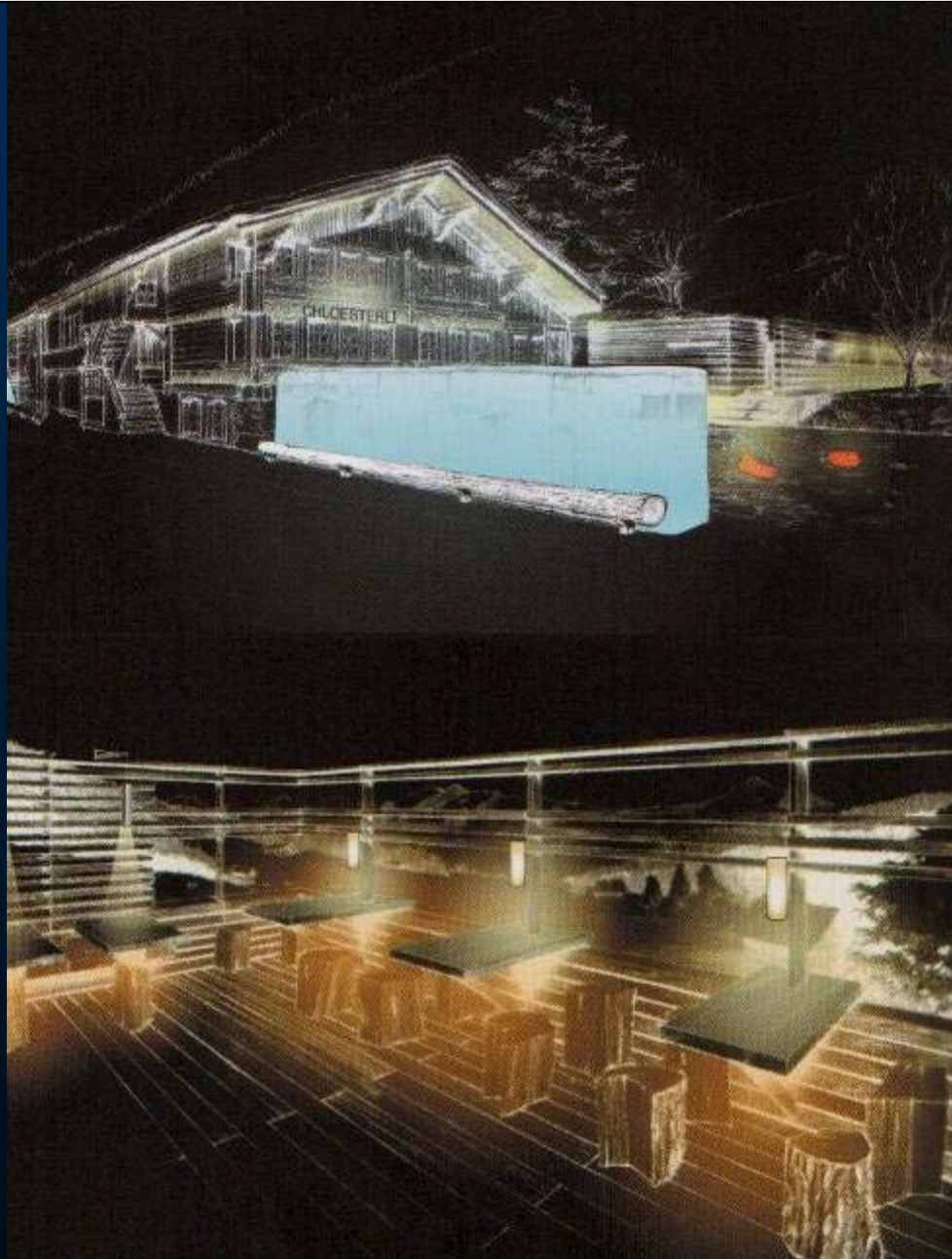




Section

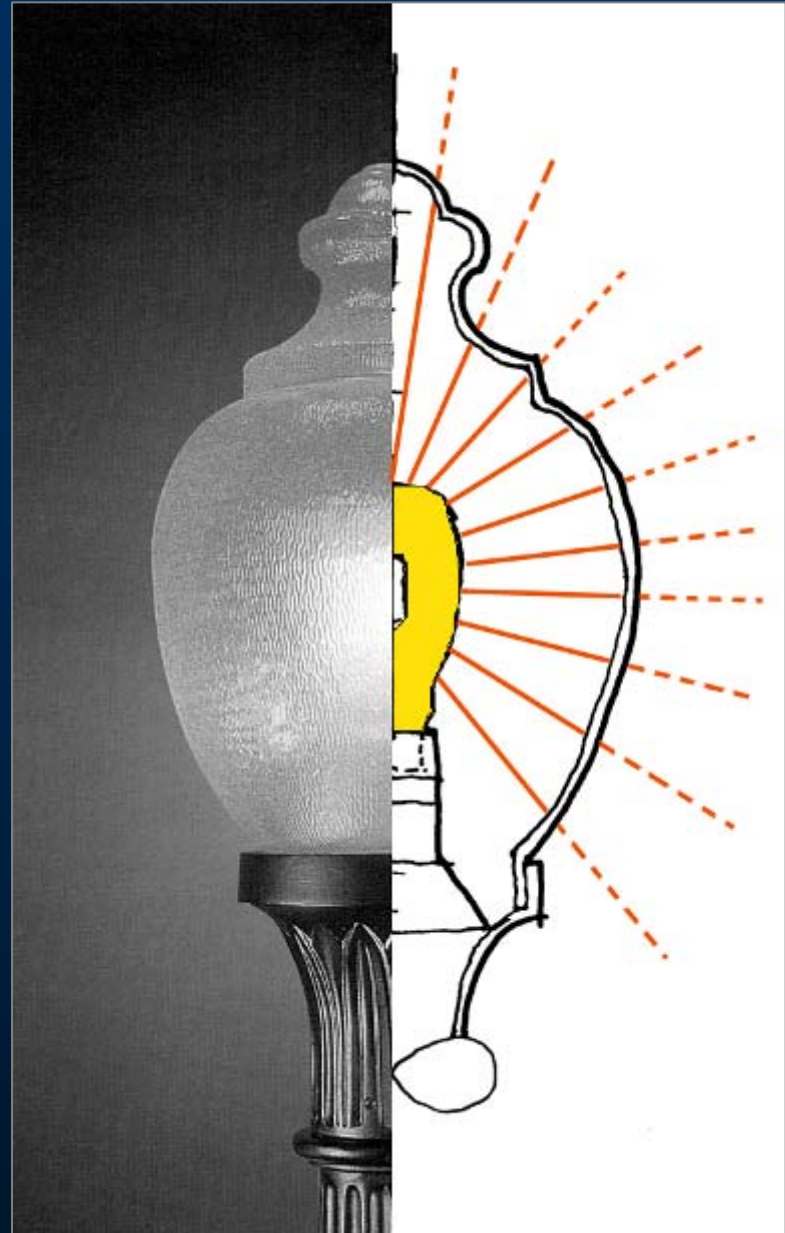


Plan

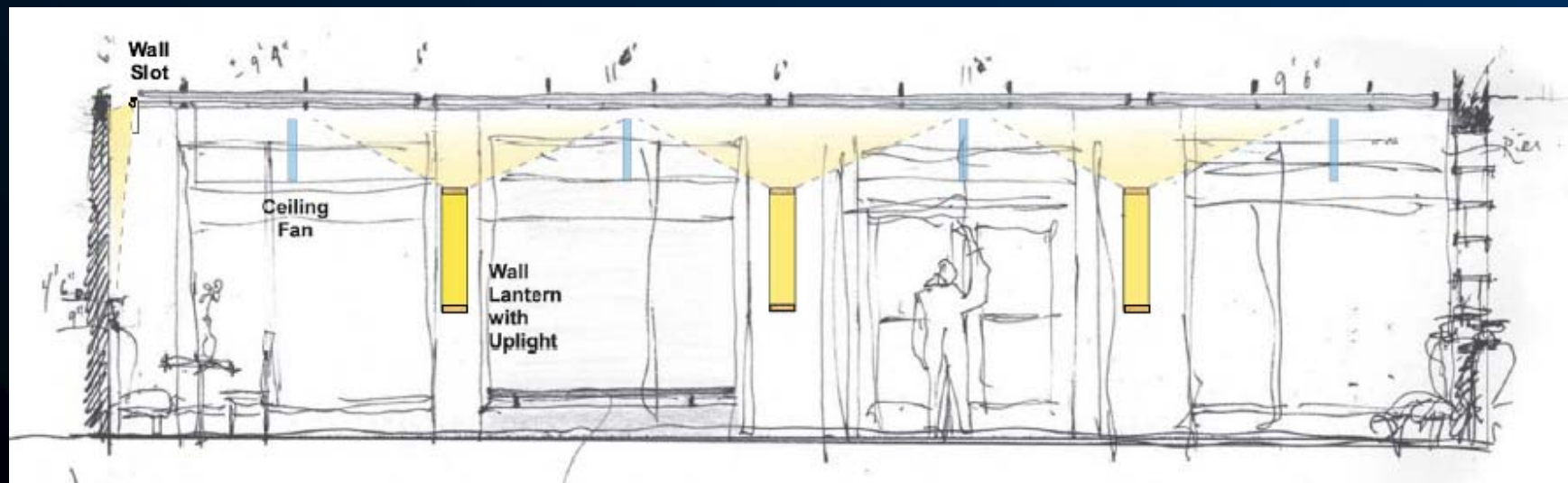
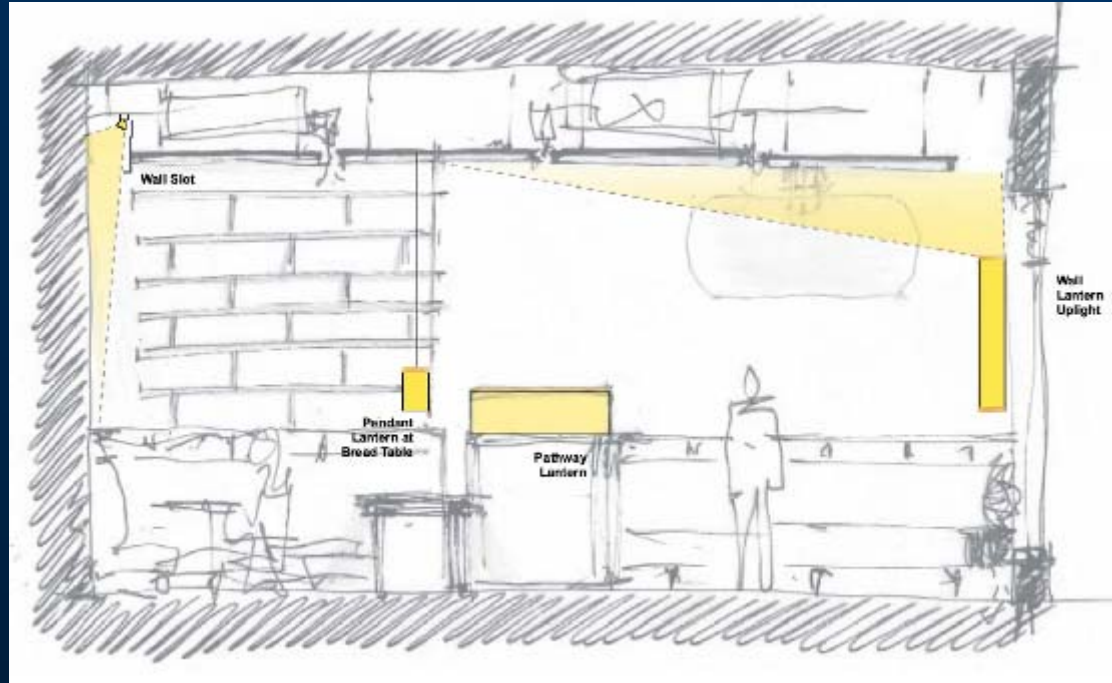
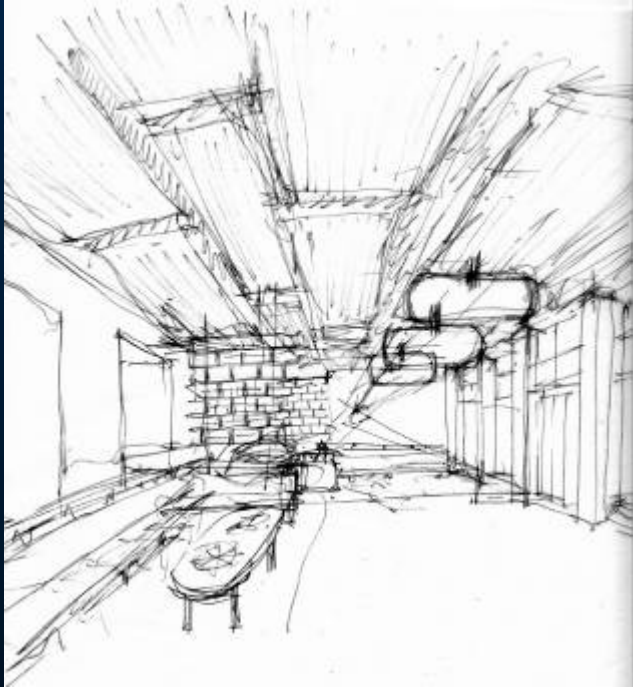




# Documenting Light Concepts



# Documenting Light Concepts



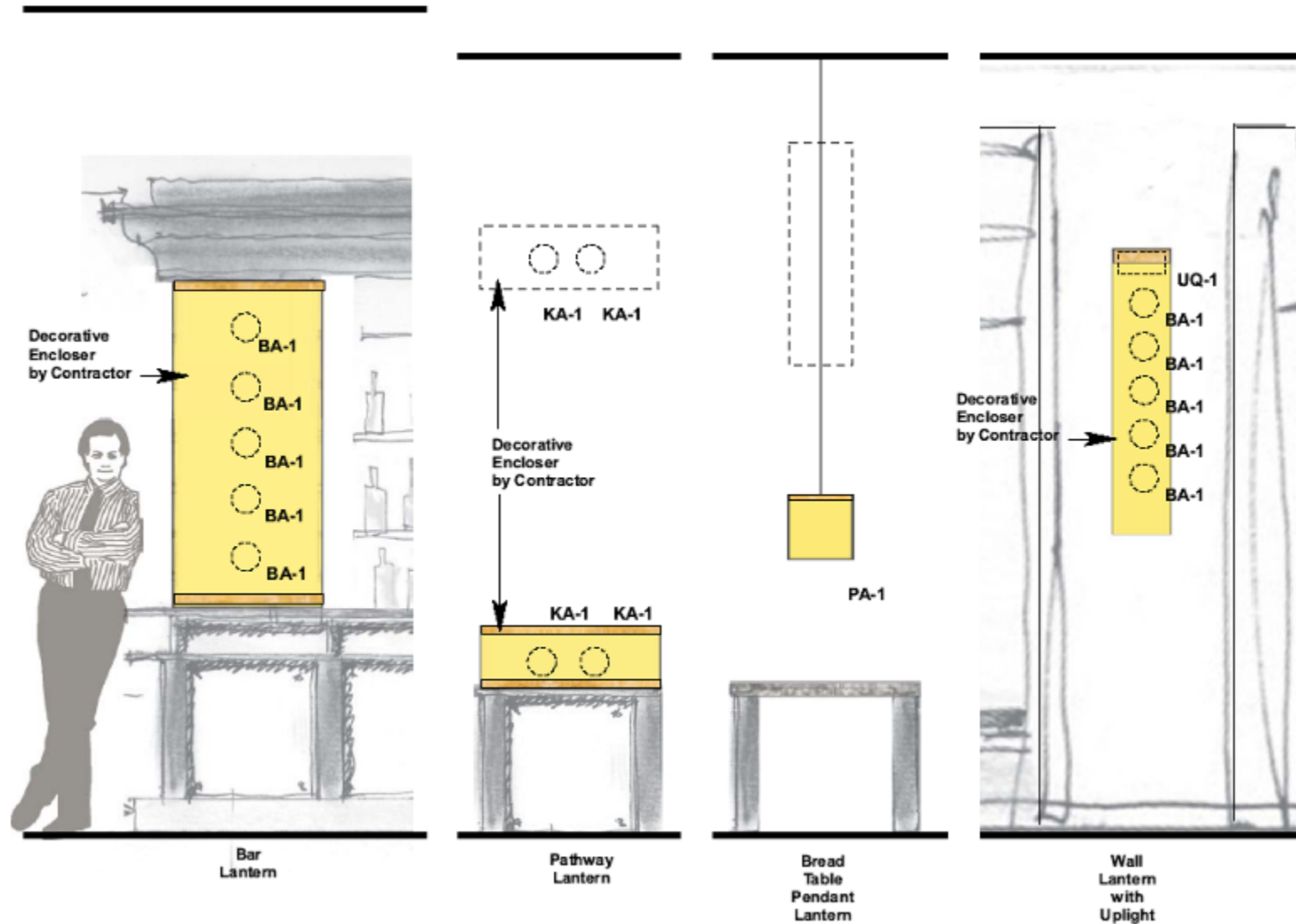
# Documenting Light Concepts



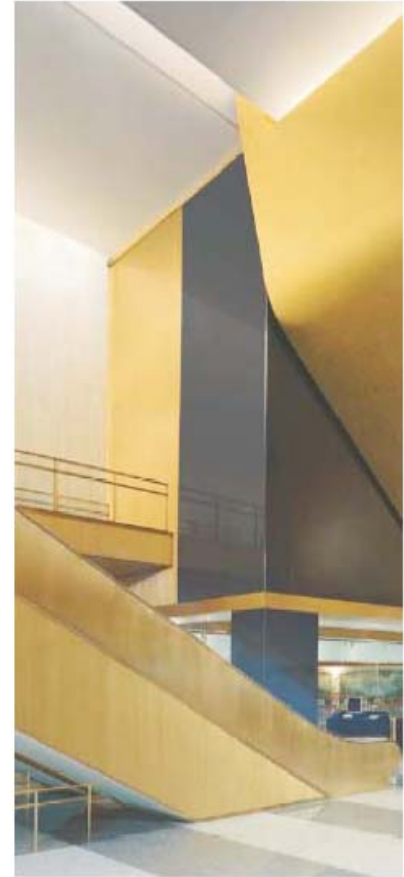
**Titanic C70**



# Documenting Light Concepts

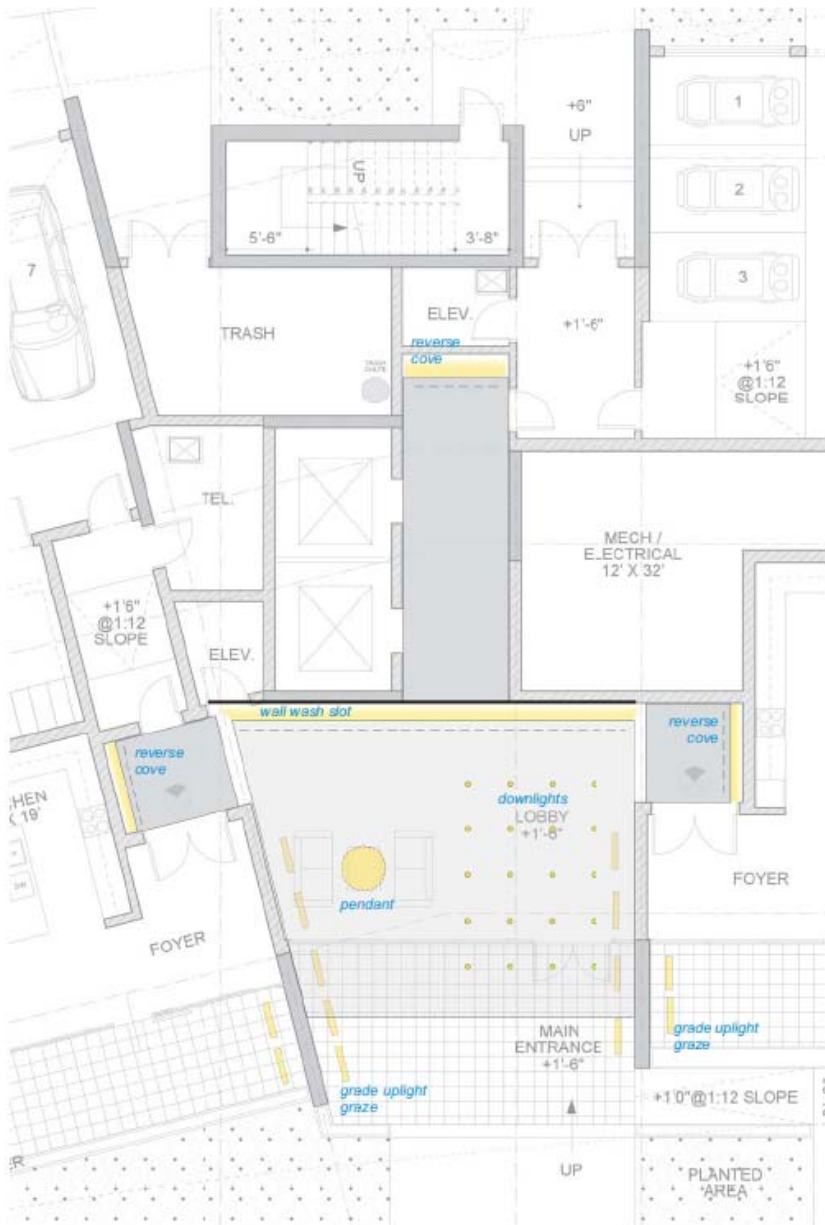


Family of Lanterns



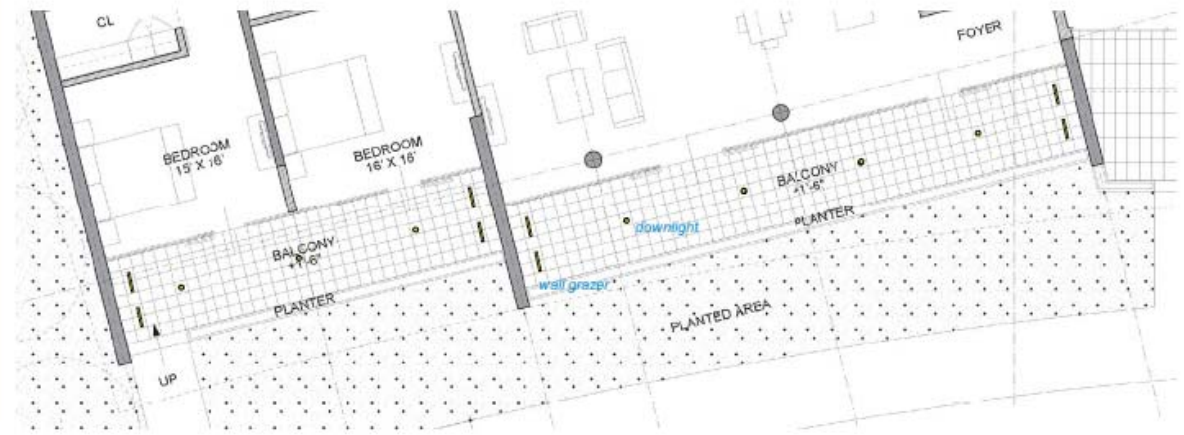
Albany Building 6  
Proposed Lighting

19 Nov 2007  
*RS Lighting Design*



Albany Building 6  
Lobby Lighting

19 Nov 2007  
RS Lighting Design





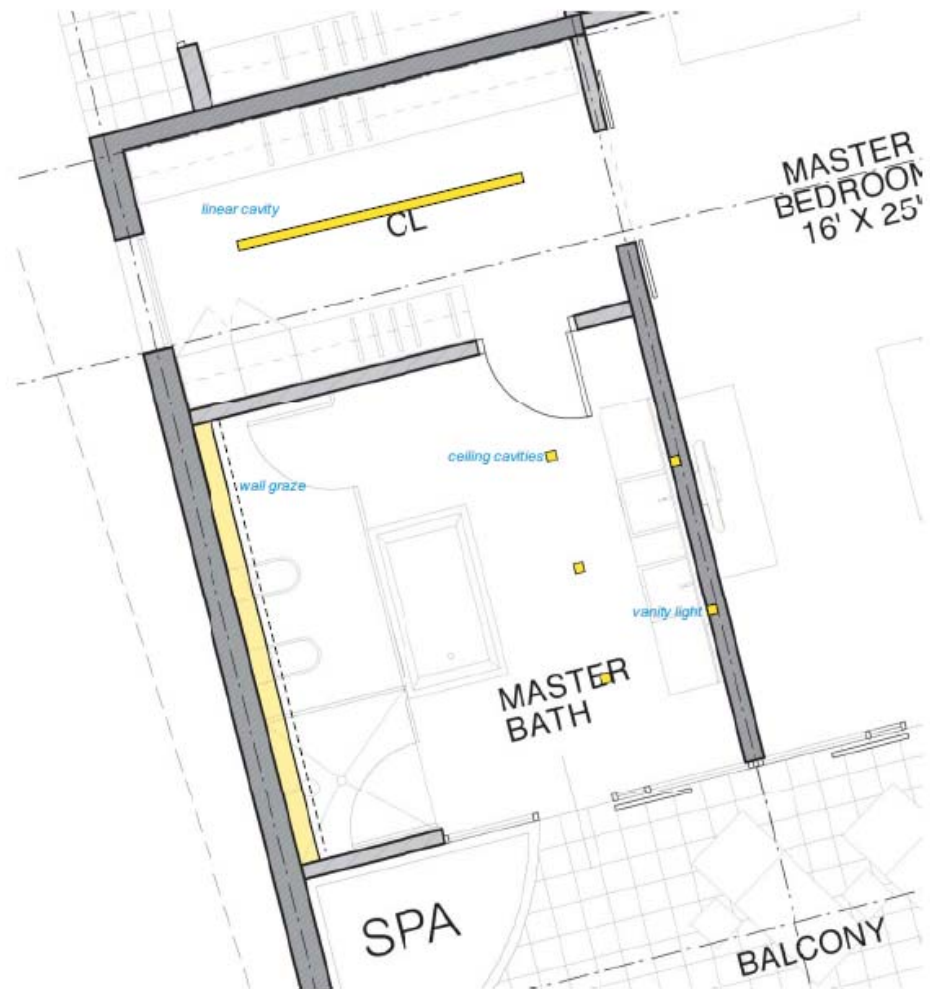
Face covering an mirror  
vanity light



ceiling cavity



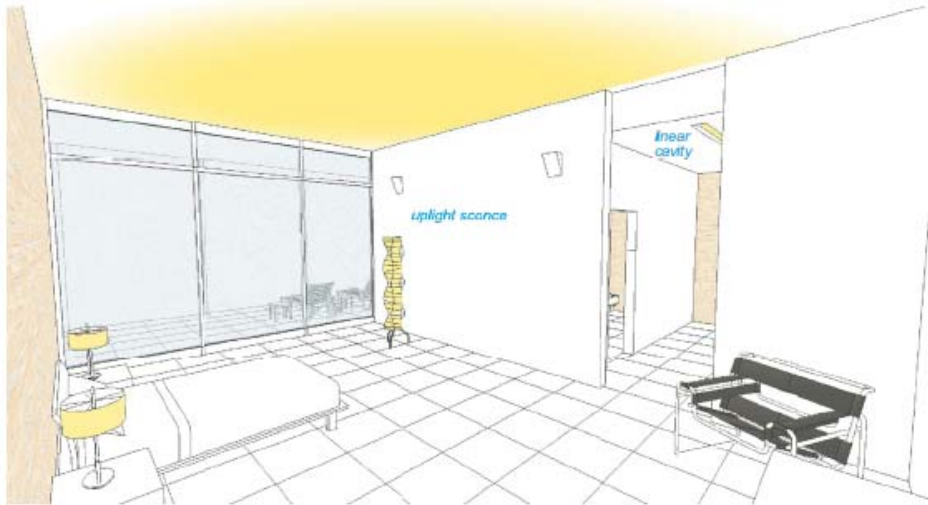
linear cavity



Albany Building 6  
Bathroom Lighting

19 Nov 2007  
RS Lighting Design

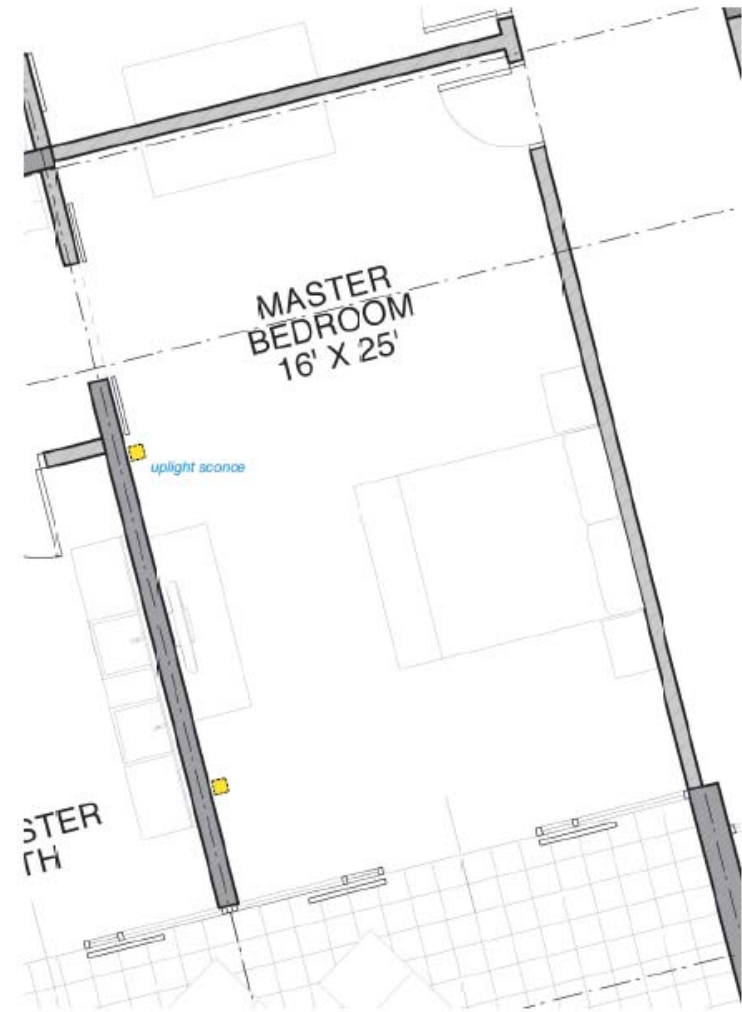




uplight sconce



linear cavity

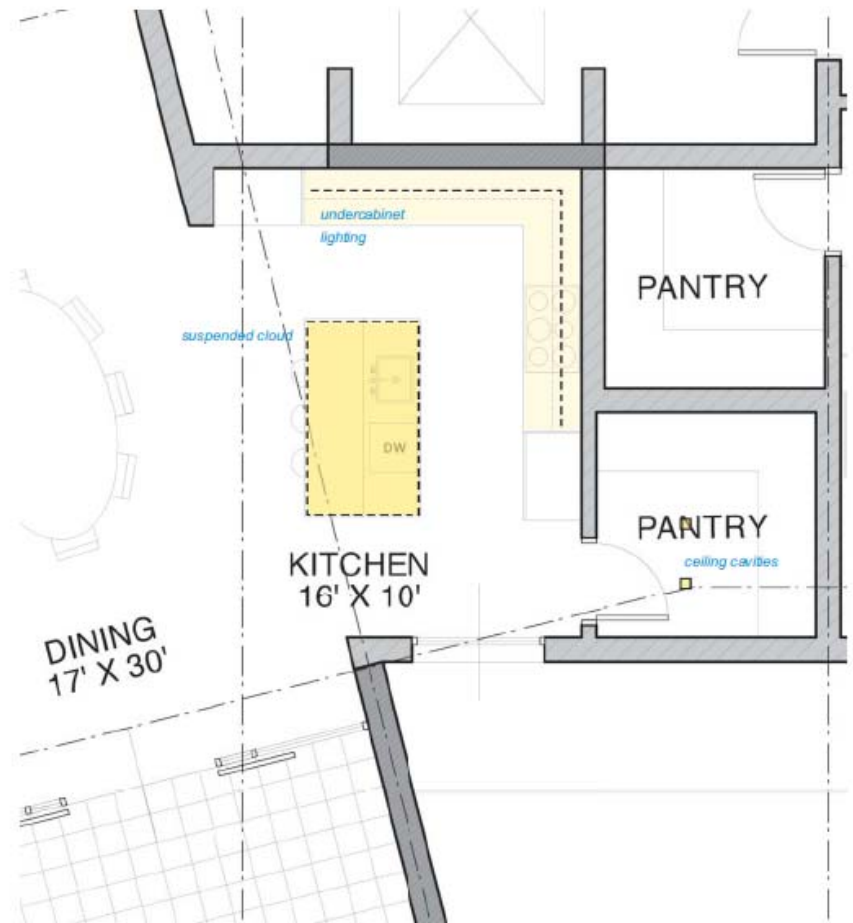


Albany Building 6  
Bedroom Lighting

19 Nov 2007  
RS Lighting Design



suspended cloud



Albany Building 6  
Kitchen Lighting

19 Nov 2007  
RS Lighting Design



ceiling cavity



pendant



Albany Building 6  
Living Room Lighting

19 Nov 2007  
RS Lighting Design

# Documenting A Lighting Plan

§ Concept

§ Drawing / Documentation

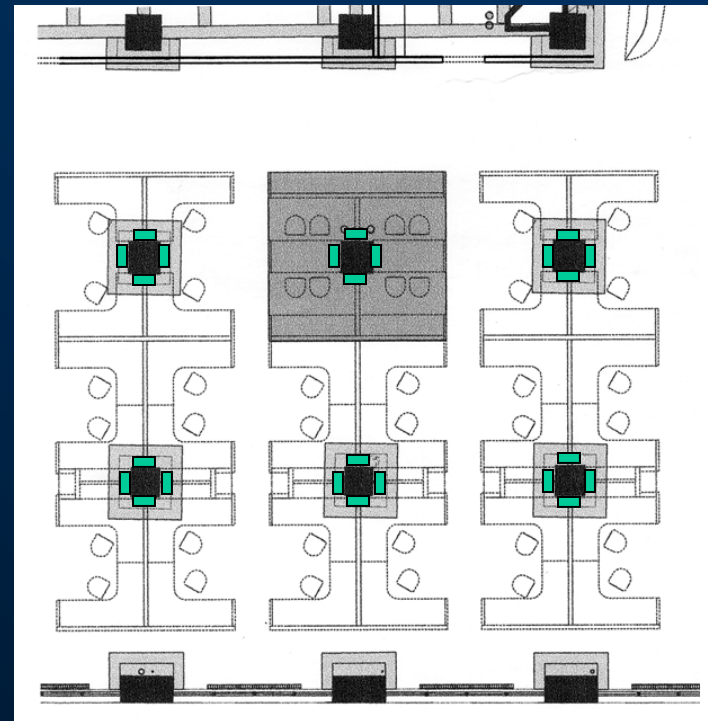
- *Layout*
- *Symbols*

§ Fixture Specifications

- *Fixture Descriptions*
- *Fixture Cuts / Mnfrs Submittals*
- *Fixture Details*

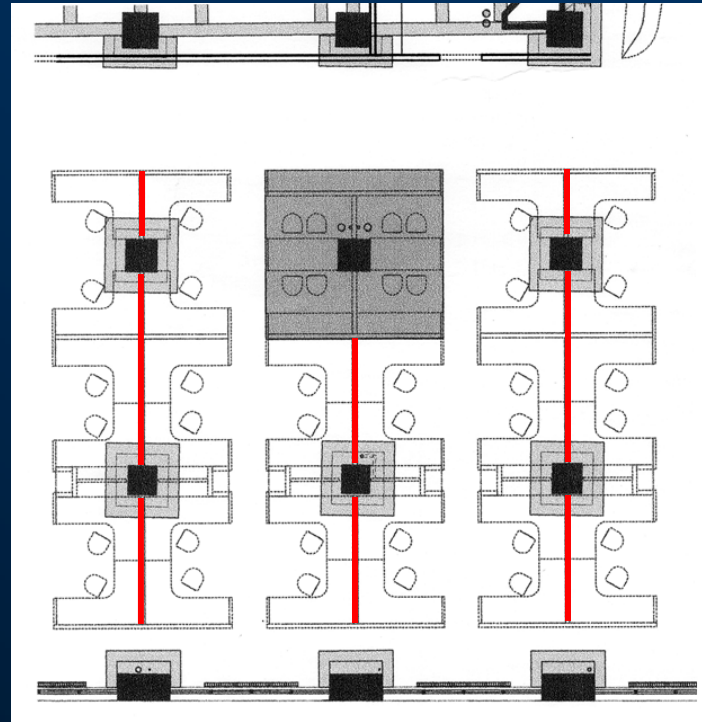
# Documenting A Lighting Plan

## § Documentation... Layout



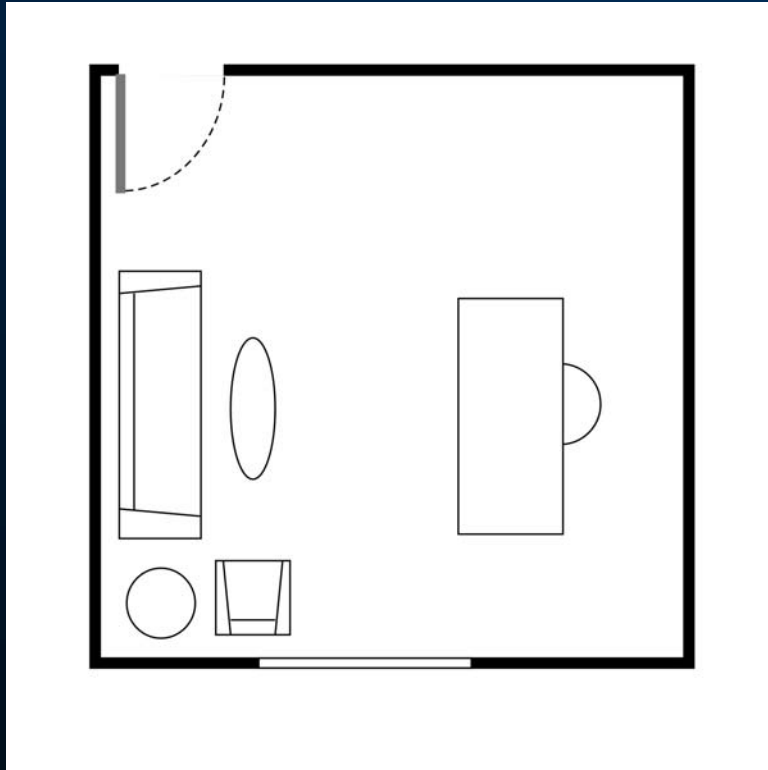
# Documenting A Lighting Plan

## § Documentation... Layout



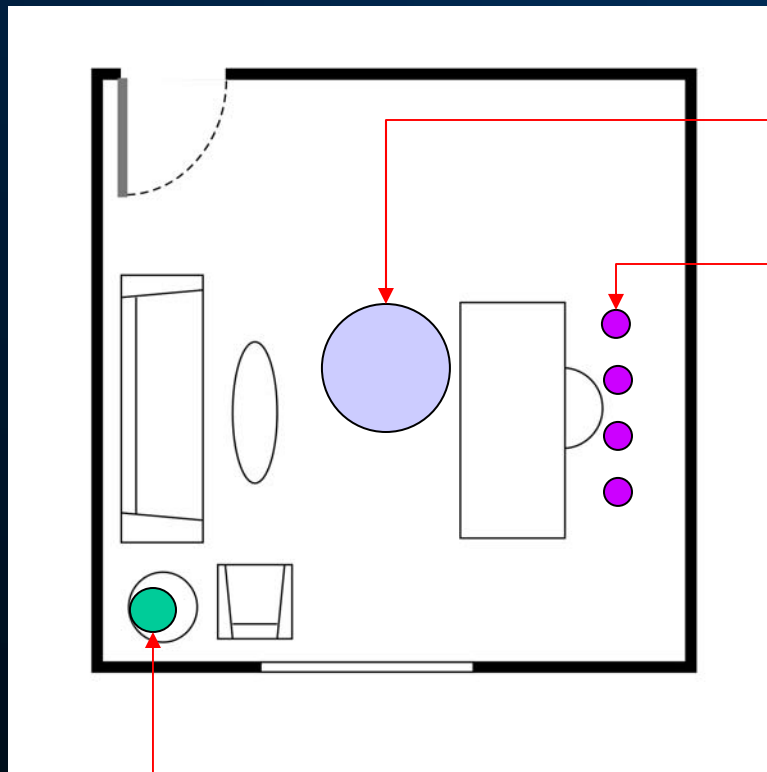
# Documenting A Lighting Plan

## *Defining light fixtures locations*



# Documenting A Lighting Plan

..... *Diagram Method*



Pendant

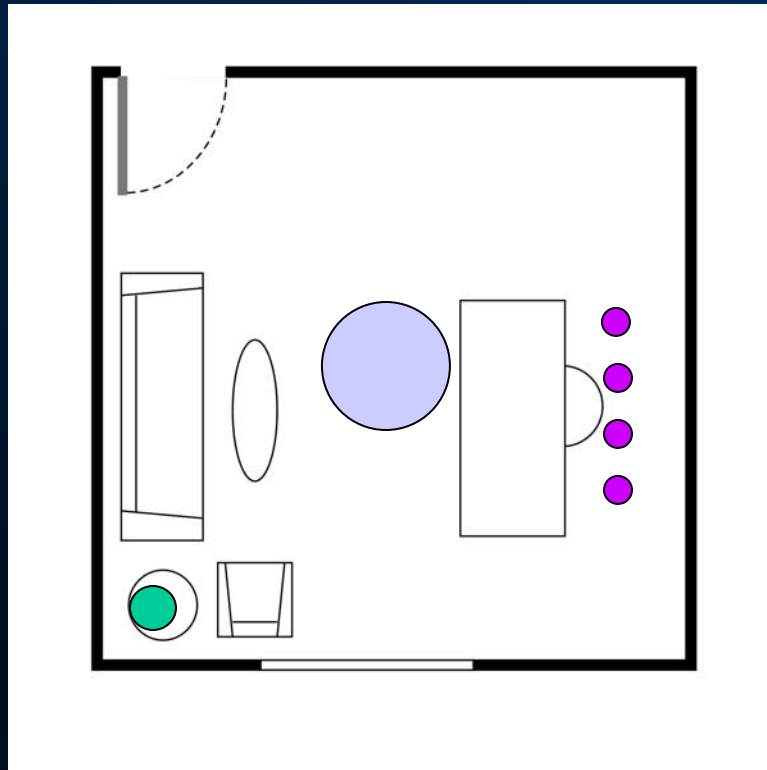
Wall Washers

Table Lamp





# Documenting A Lighting Plan

..... *Legend Method*

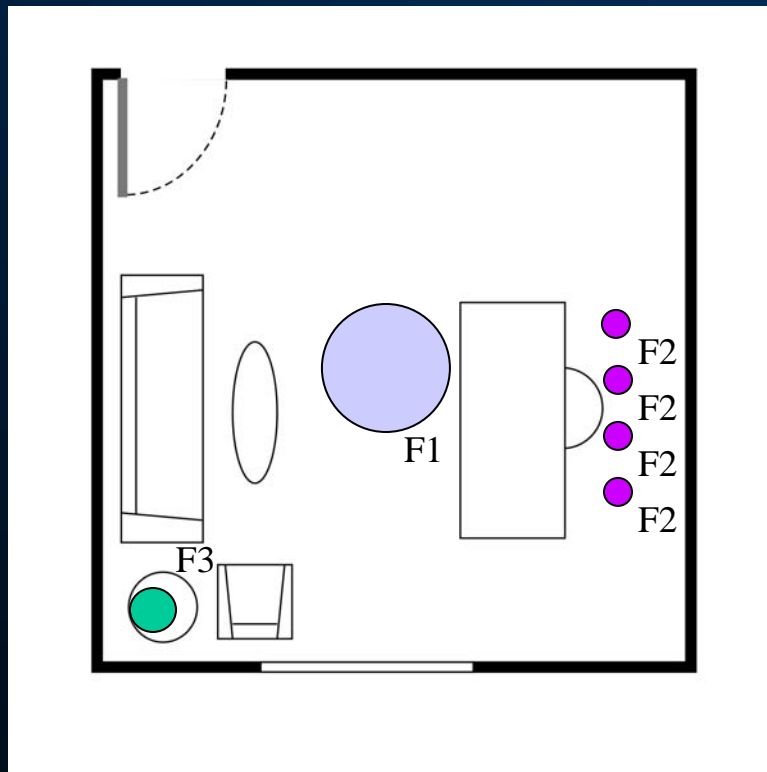


Legend:

-  Pendant
-  Wall Washers
-  Table Lamp

# Documenting A Lighting Plan

..... *Type Method*



Fixture Types:

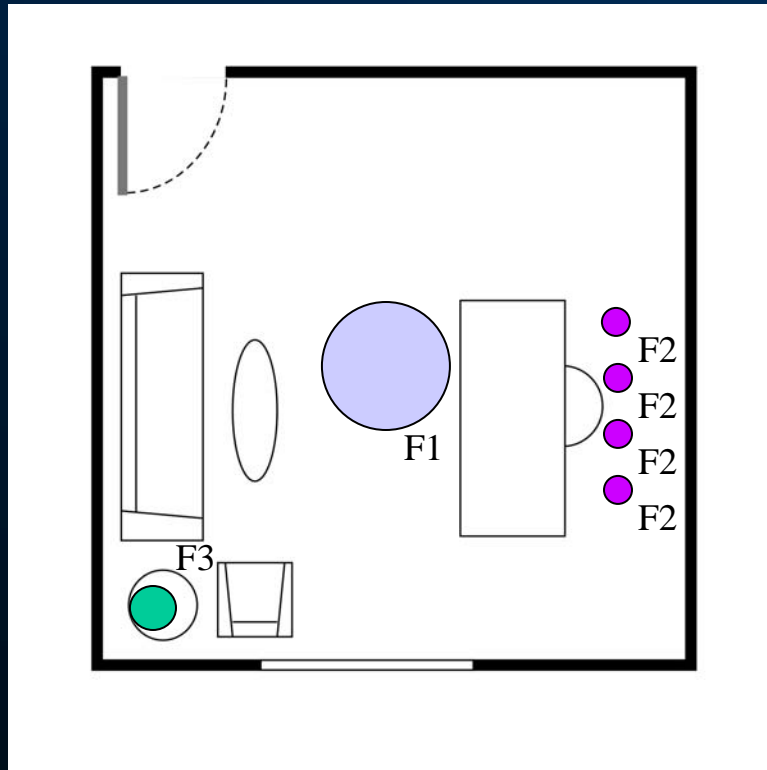
F1 Pendant

F2 Wall Washers

F3 Table Lamp

# Documenting A Lighting Plan

..... *Type Method*



## *Fixture Specification*

Fixture Types:

F1 Pendant

F2 Wall Washers

F3 Table Lamp

# Documenting A Lighting Plan

## § Fixture Specifications

### § Written Documentation to Describe Fixture

- *Location, Size, Performance, Source, etc.*
- *Manufacture!!!!*

### § Keyed to a Layout or Plan

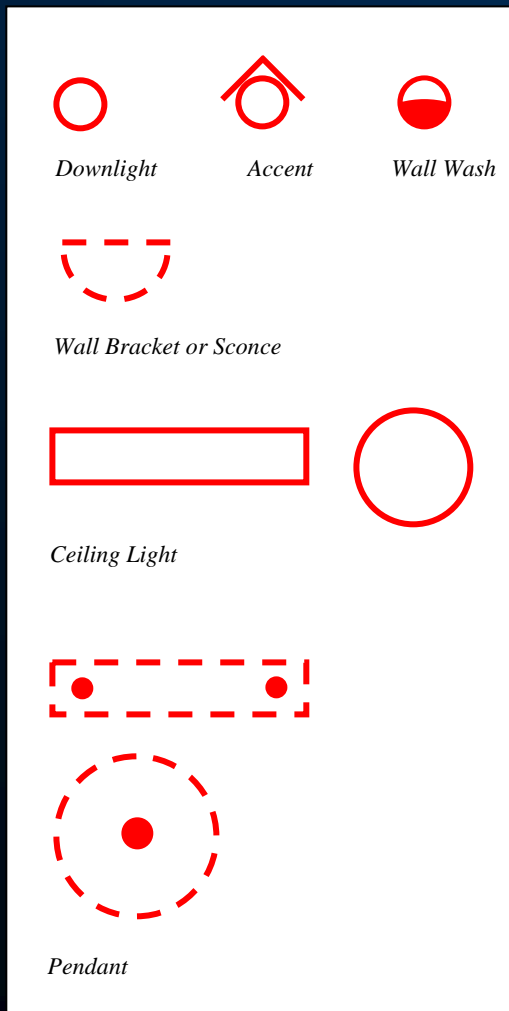
- *Type Designations*

### § Fixture Cuts

- *Manufactures Catalog Cuts or Submittals*
- *Details*

# Documenting A Lighting Plan

## § Graphics / Symbols



### § Graphic to Define Location

- *Floor, Walls, Ceiling (Solid or Dashed)*
- *Drawn to Scale and Shape*

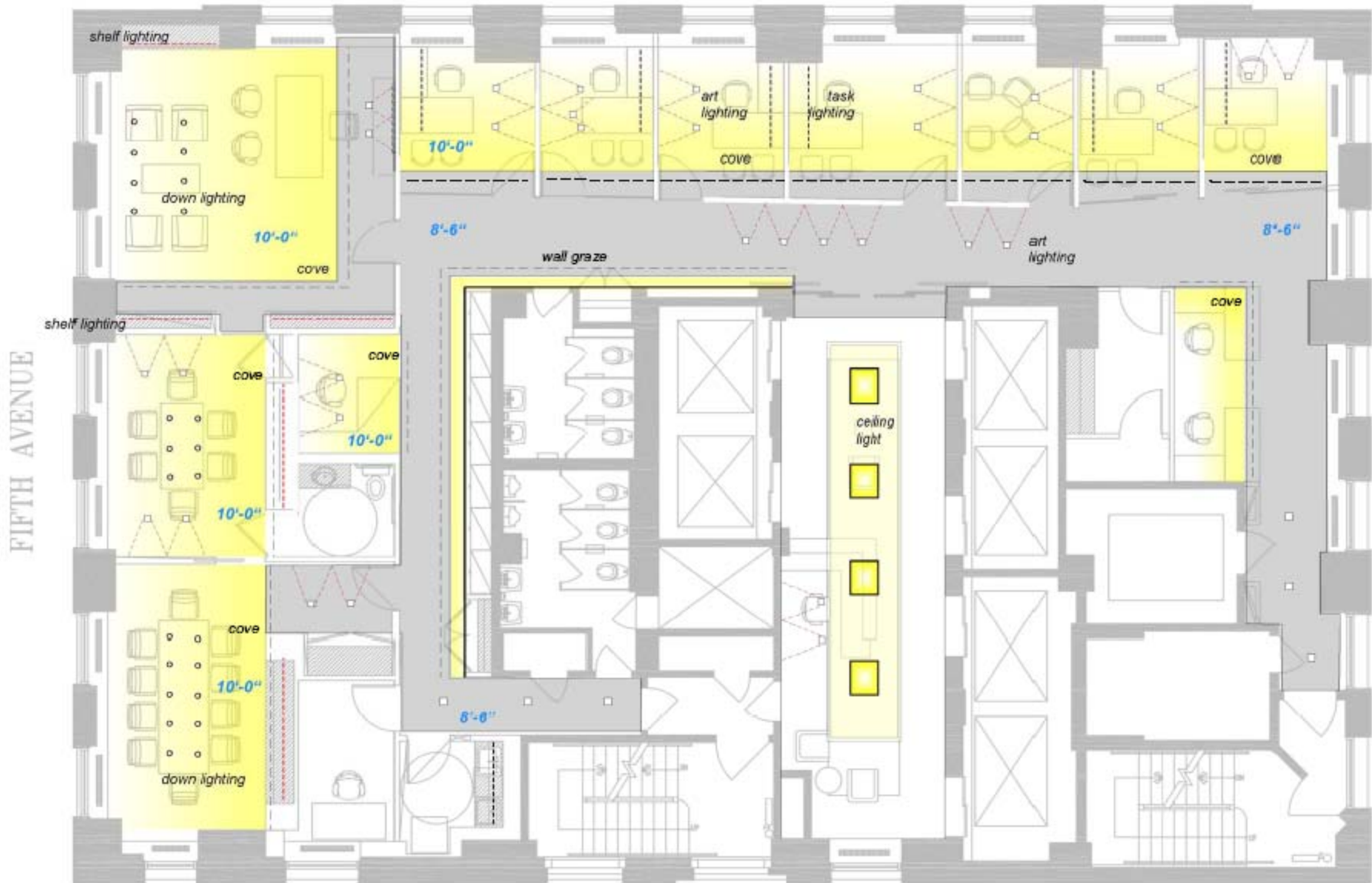
### § Descriptive of the Type of Fixture

- *Downlight, Pendant, Floor Lamp*

### § Keyed to Legend or Fixture Specification

(aka **Schedule**)

58th STREET



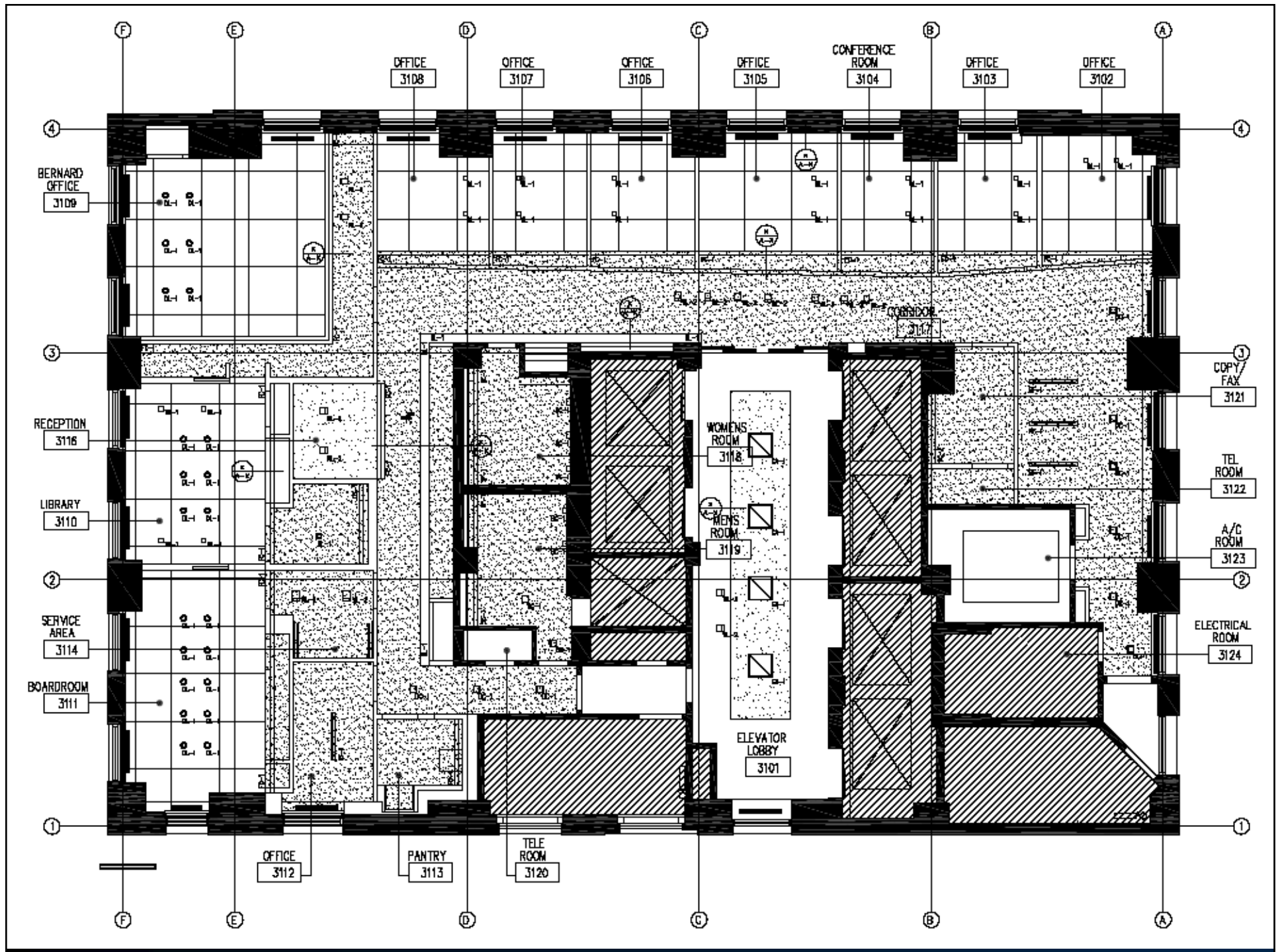
Reflected Ceiling Plan (with furniture, with lighting concept)

58th STREET

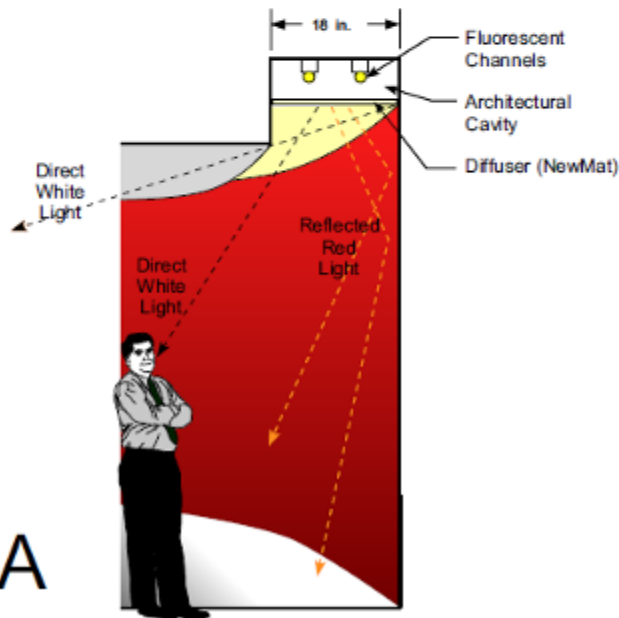
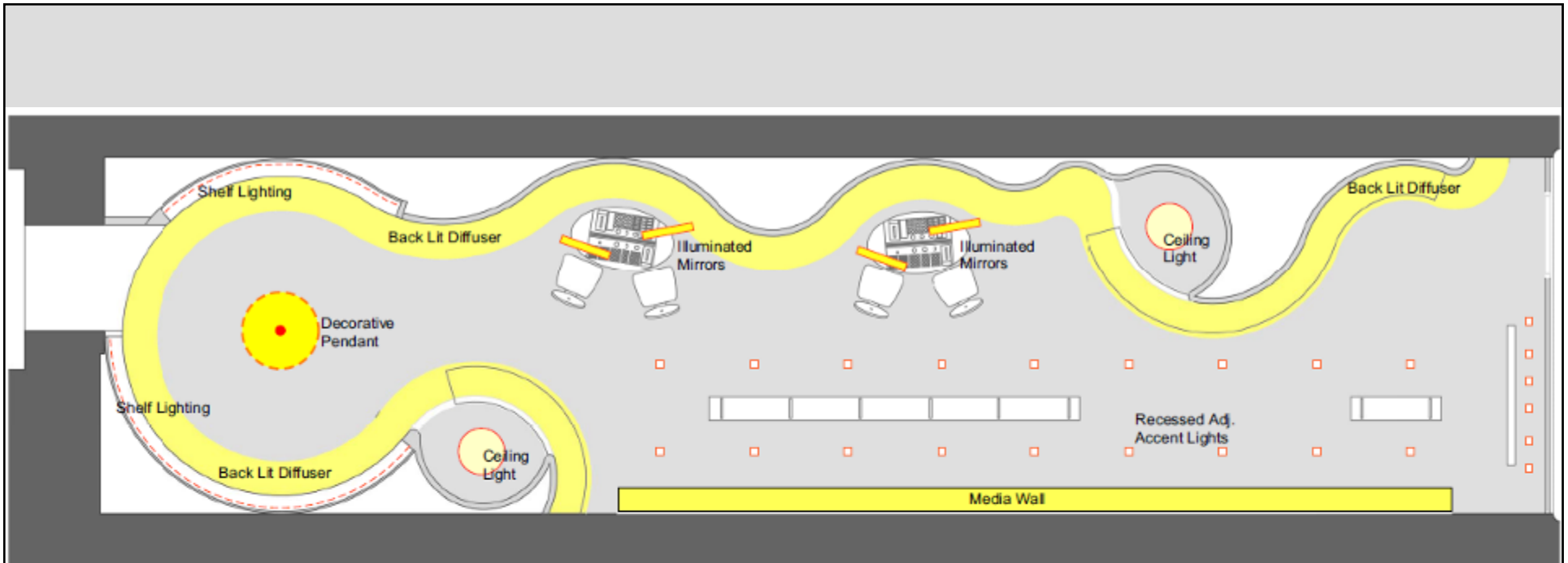
FIFTH AVENUE



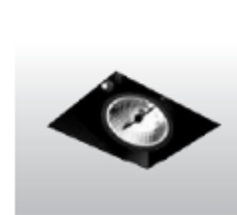
Lighting Plan







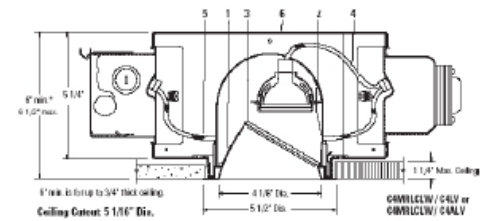
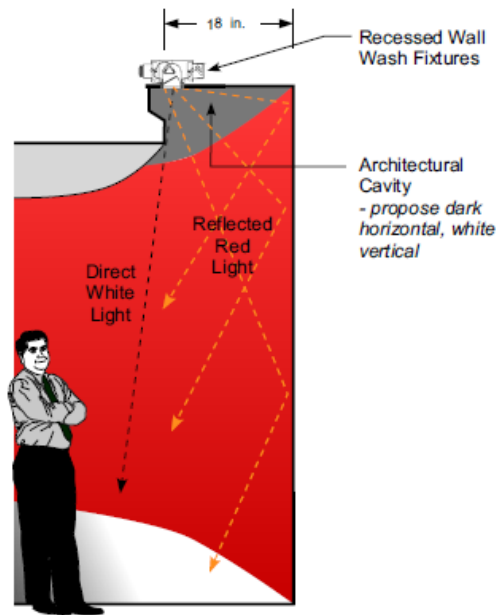
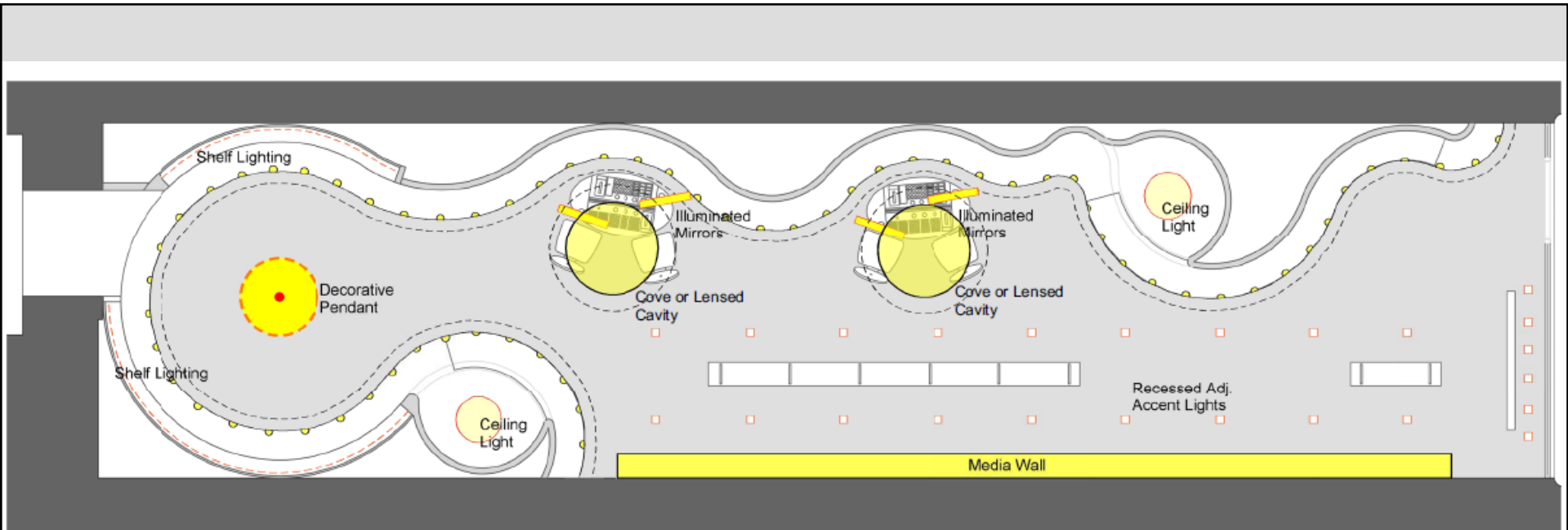
Option A



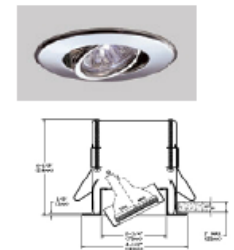
Recessed Adj Accent



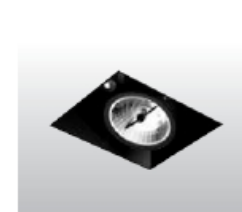
Ceiling Light



Fixture Option One



Fixture Option Two (with lens)



Recessed Adj Accent



Ceiling Light

Option B



Wall Wash Slot  
- open



Ceiling Slots  
- lensed



Uplight Cove  
- above cavity



Linear Pendant  
- indirect

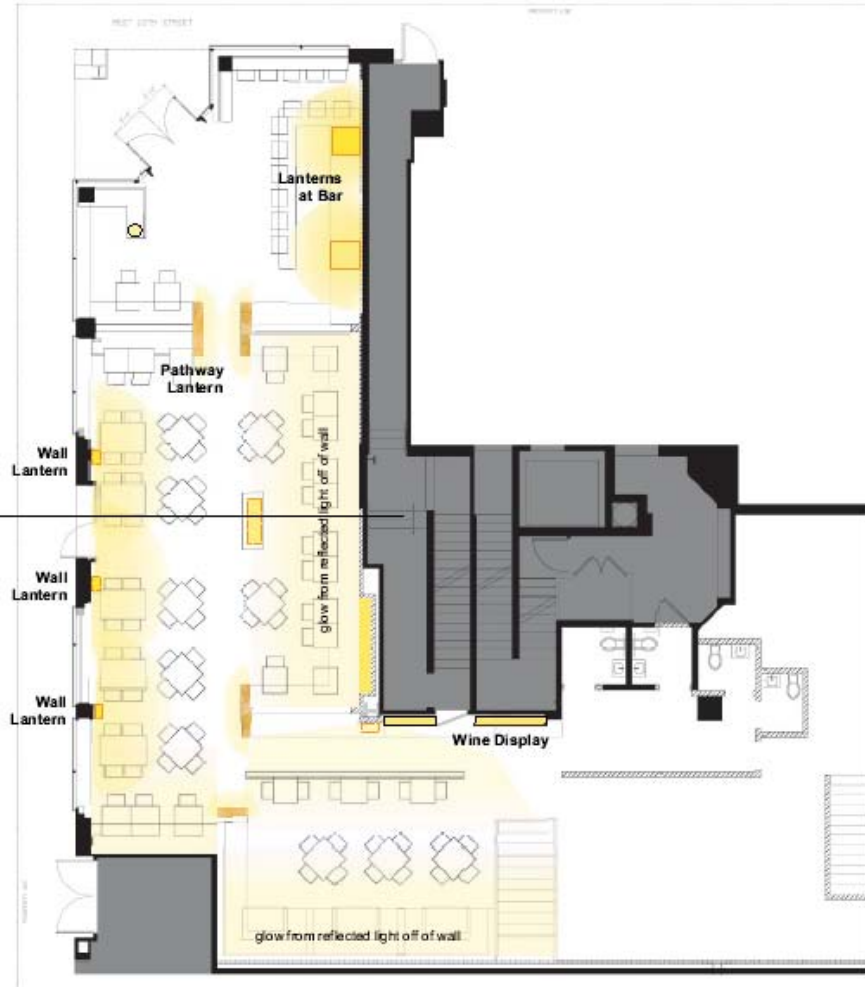


Mini Ceiling and Pendant Lights  
- white cylinders

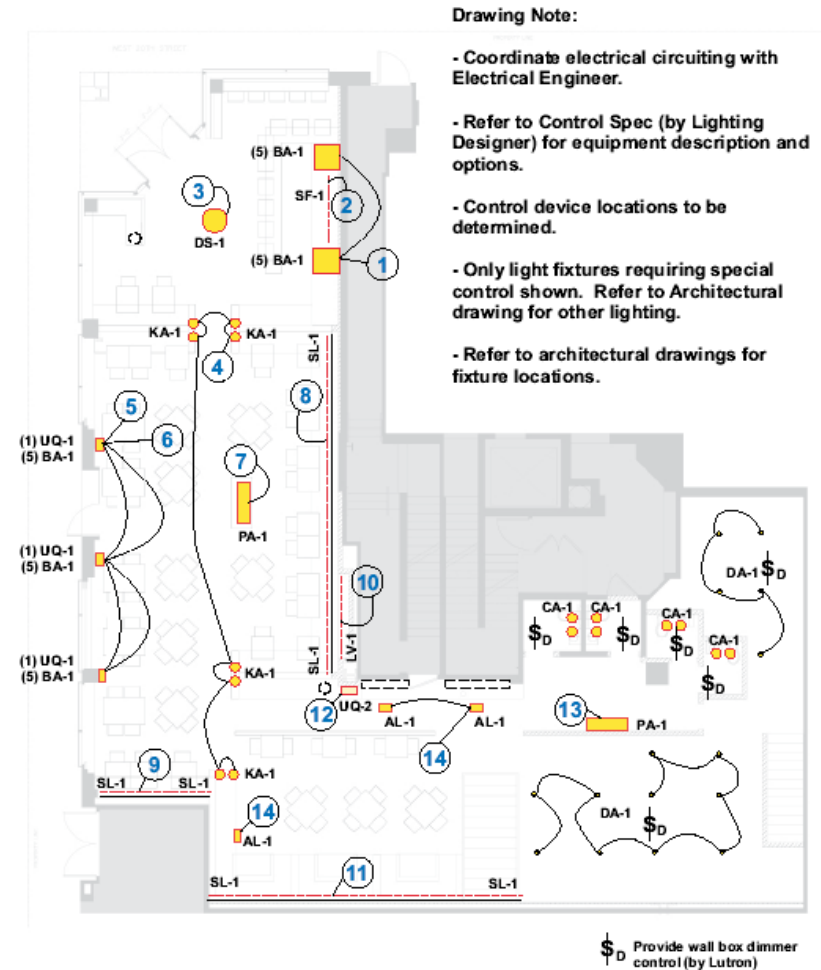


Ceiling Domes  
- 24 inch and 48 inch

# Documenting Light Concepts

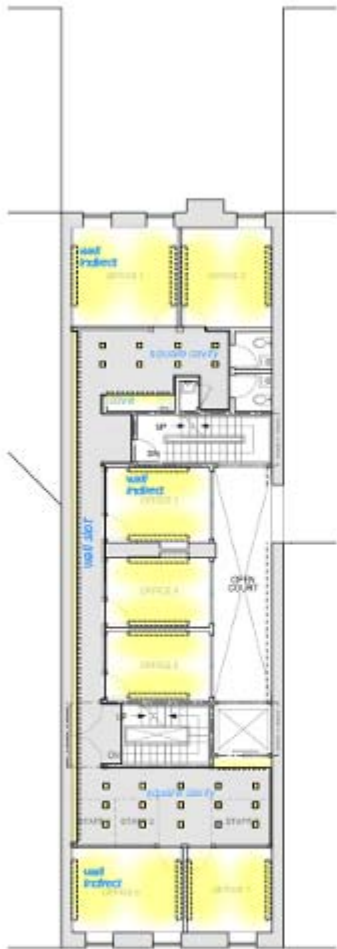


Furniture Plan - Lighting

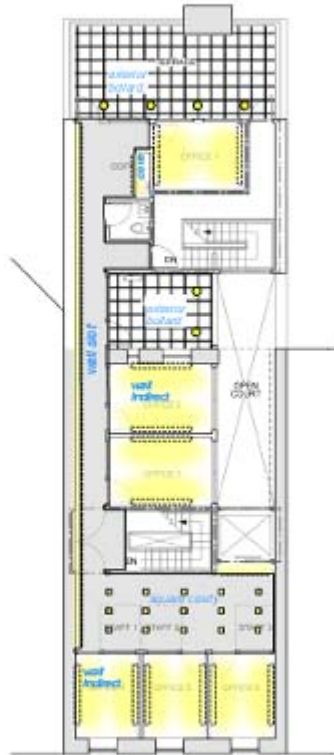


## Drawing Note:

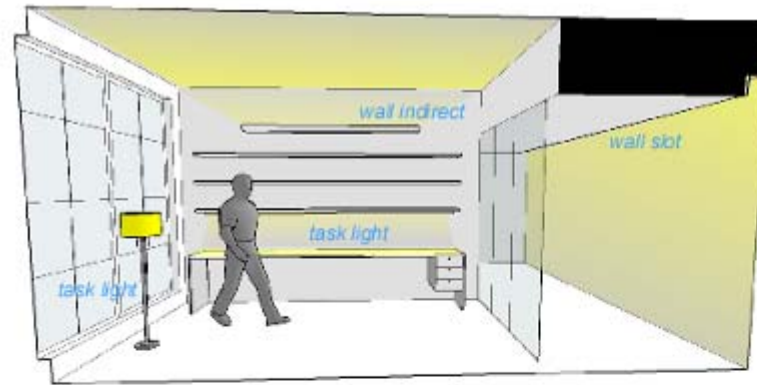
- Coordinate electrical circuiting with Electrical Engineer.
- Refer to Control Spec (by Lighting Designer) for equipment description and options.
- Control device locations to be determined.
- Only light fixtures requiring special control shown. Refer to Architectural drawing for other lighting.
- Refer to architectural drawings for fixture locations.



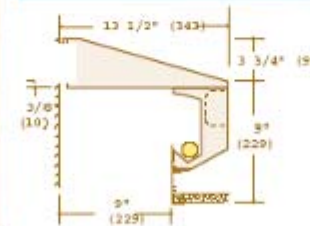
1 THIRD FLOOR



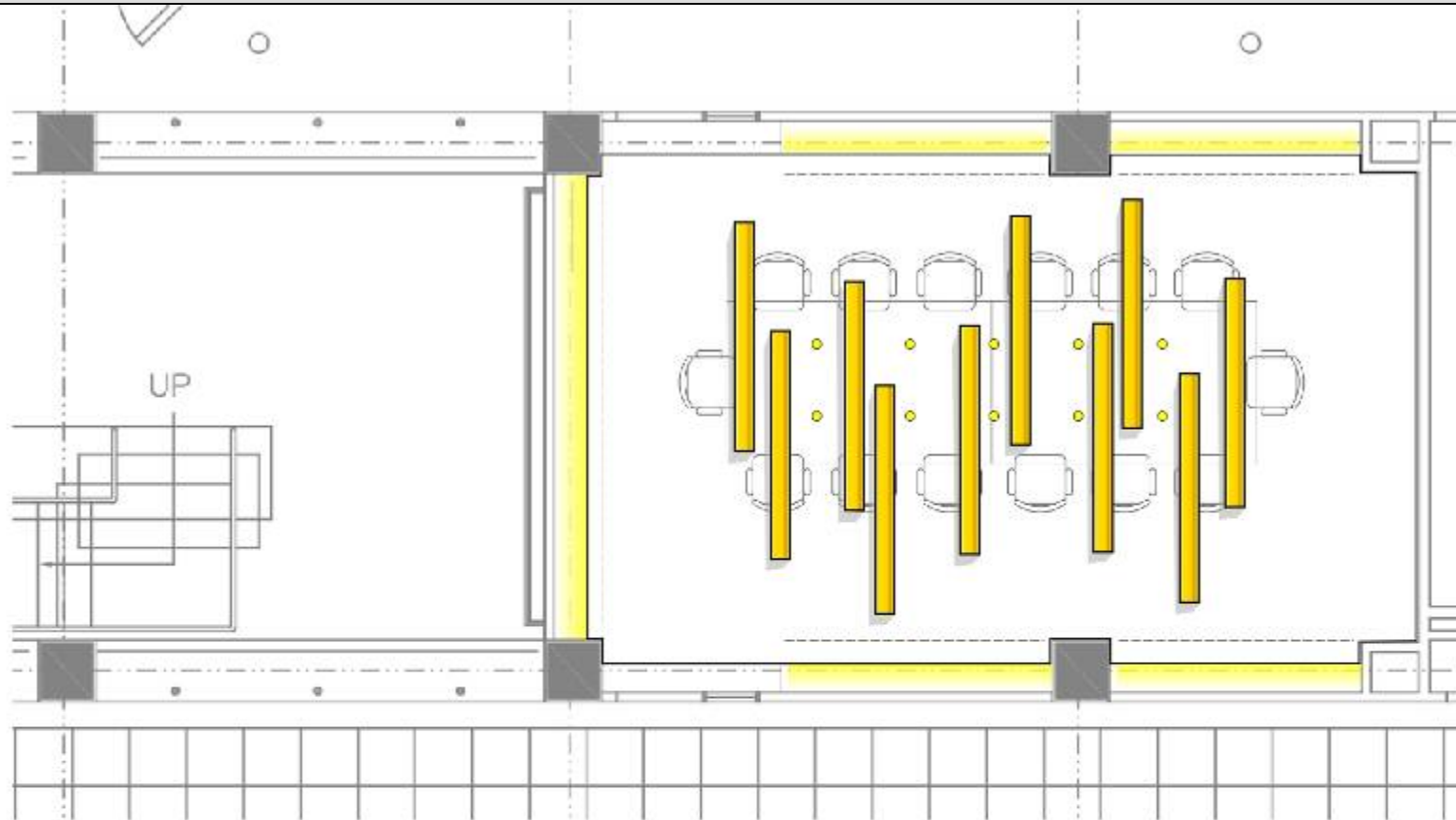
2 FOURTH FLOOR



wall slot

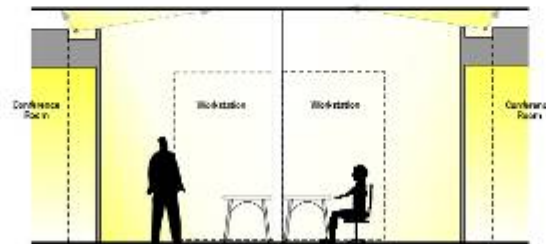
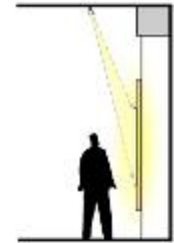
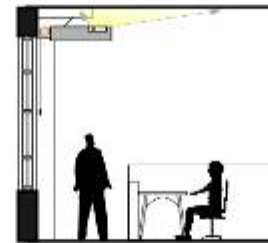
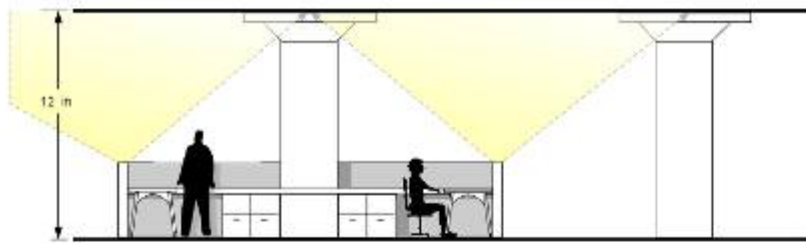
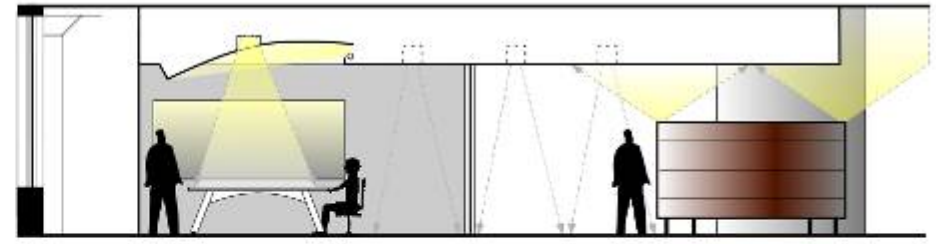


wall indirect

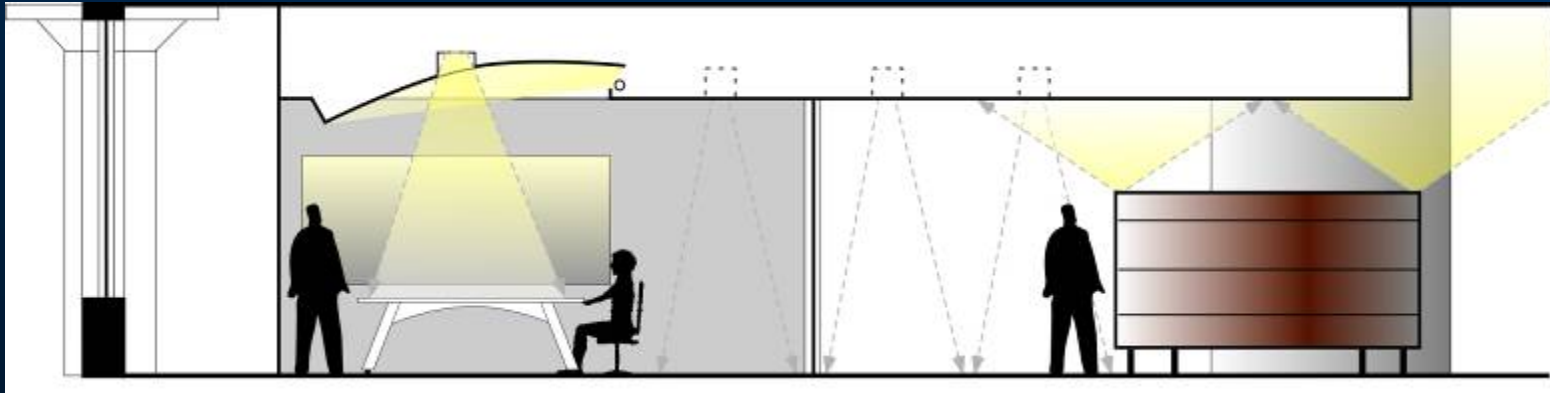


3rd Floor  
3/16in = 1'-0"

# Documenting Light Concepts



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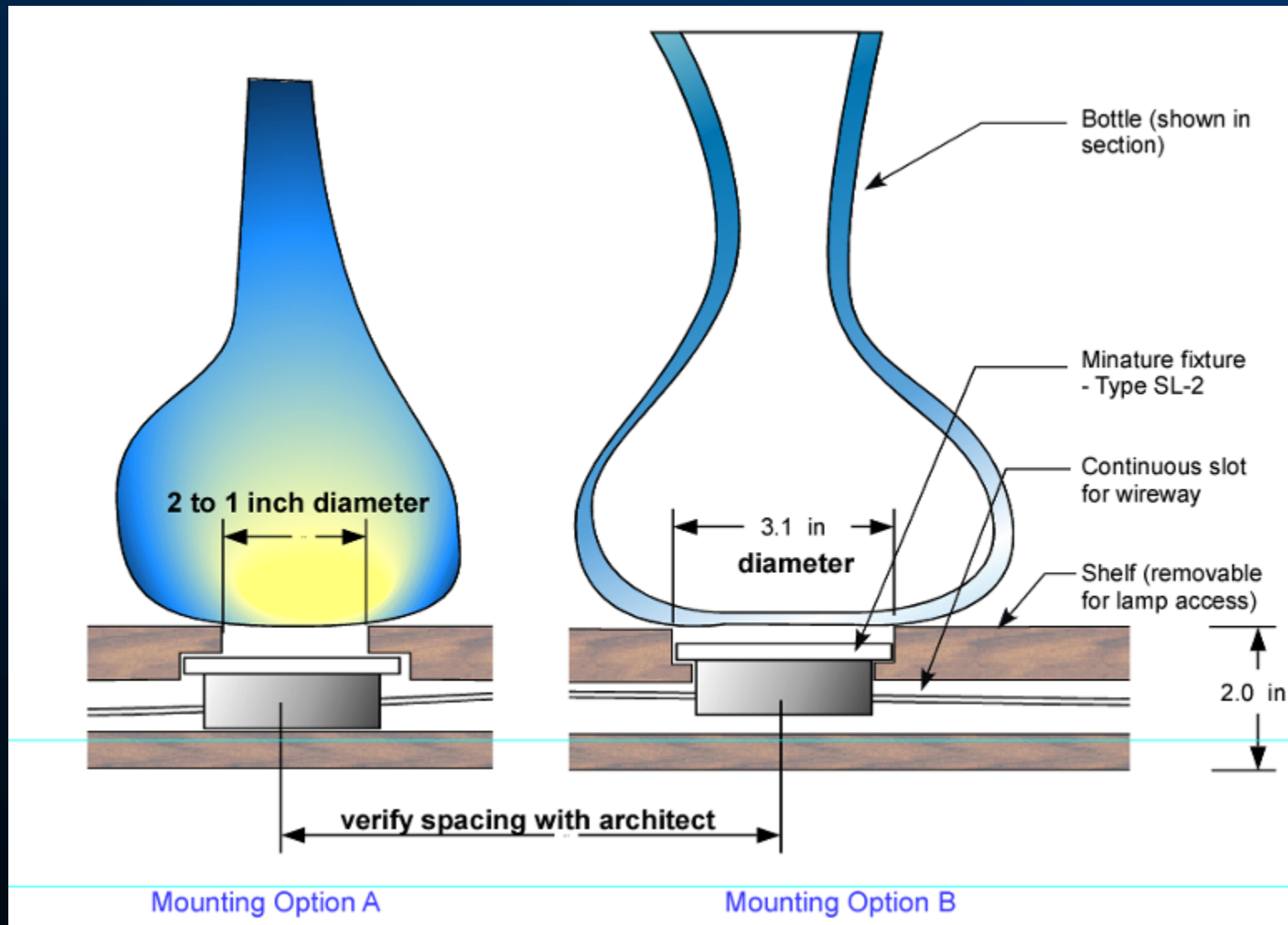
*Downlights  
Over  
Table  
-  
Cove  
Over  
Table*

*Downlights  
At  
Circulation*

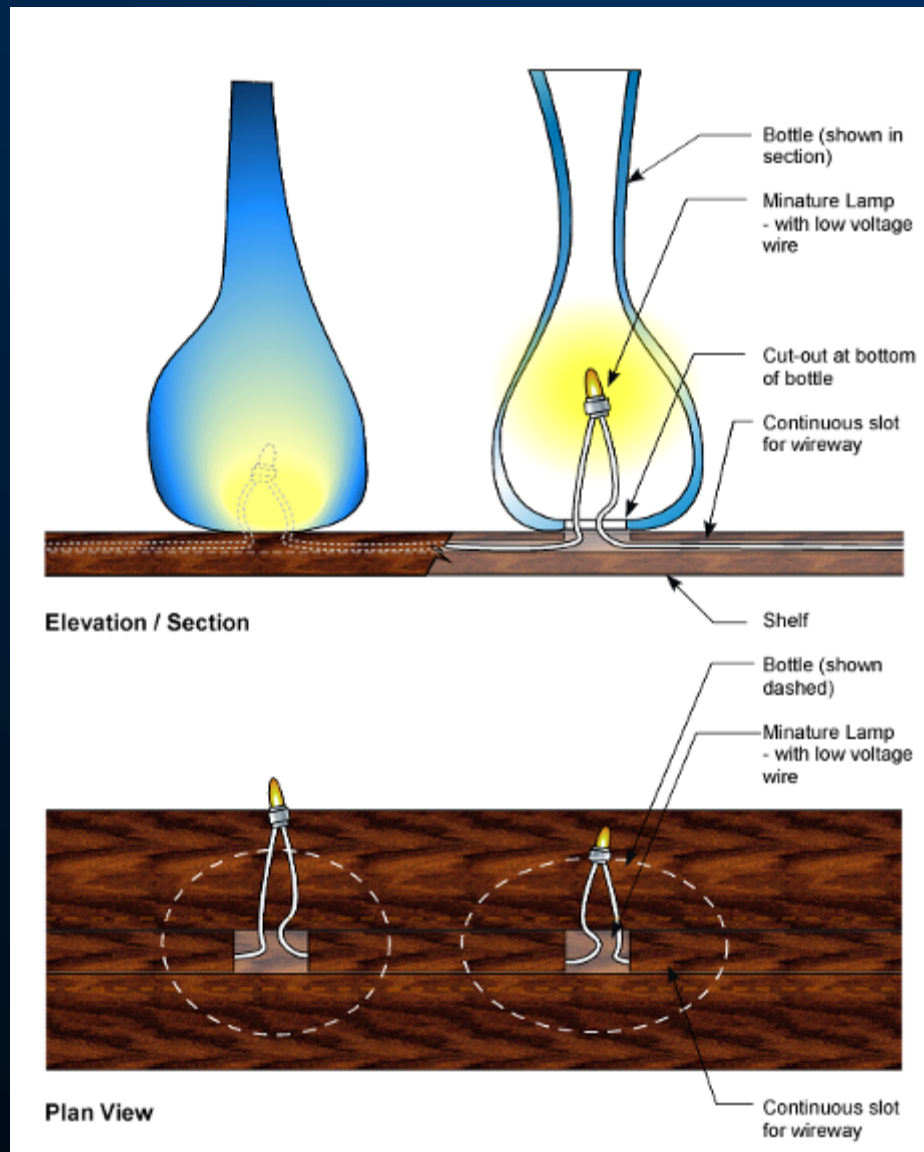
*Uplights  
On top of  
Banquets*



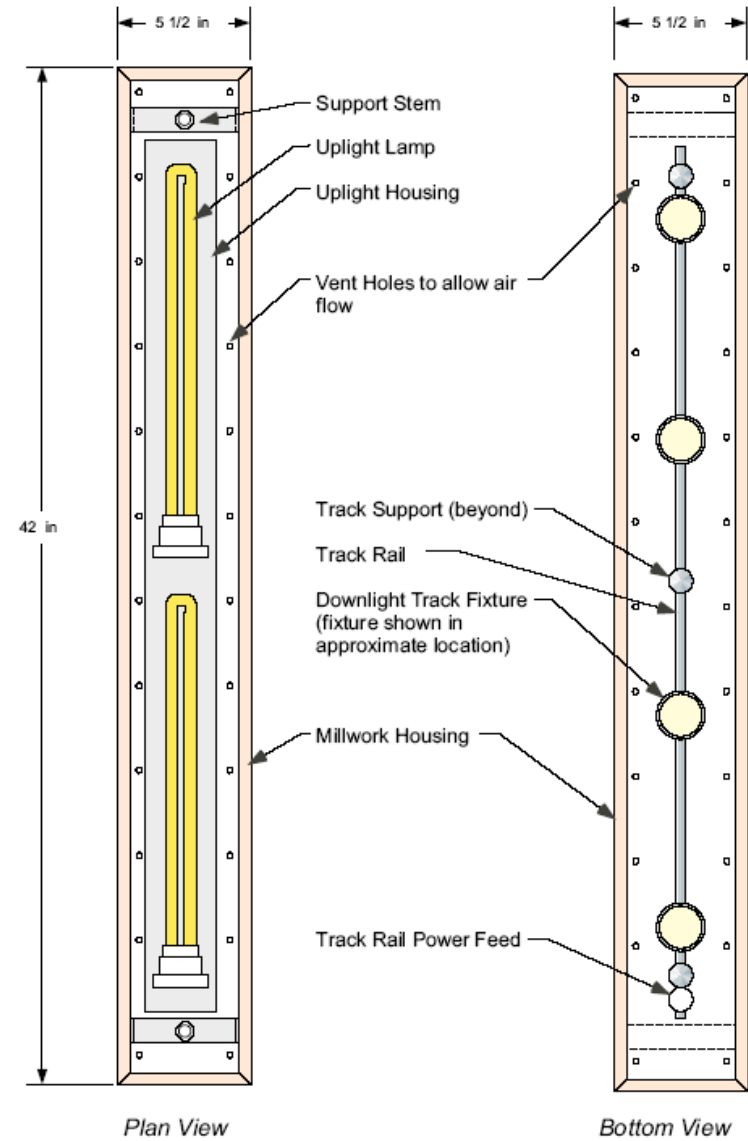
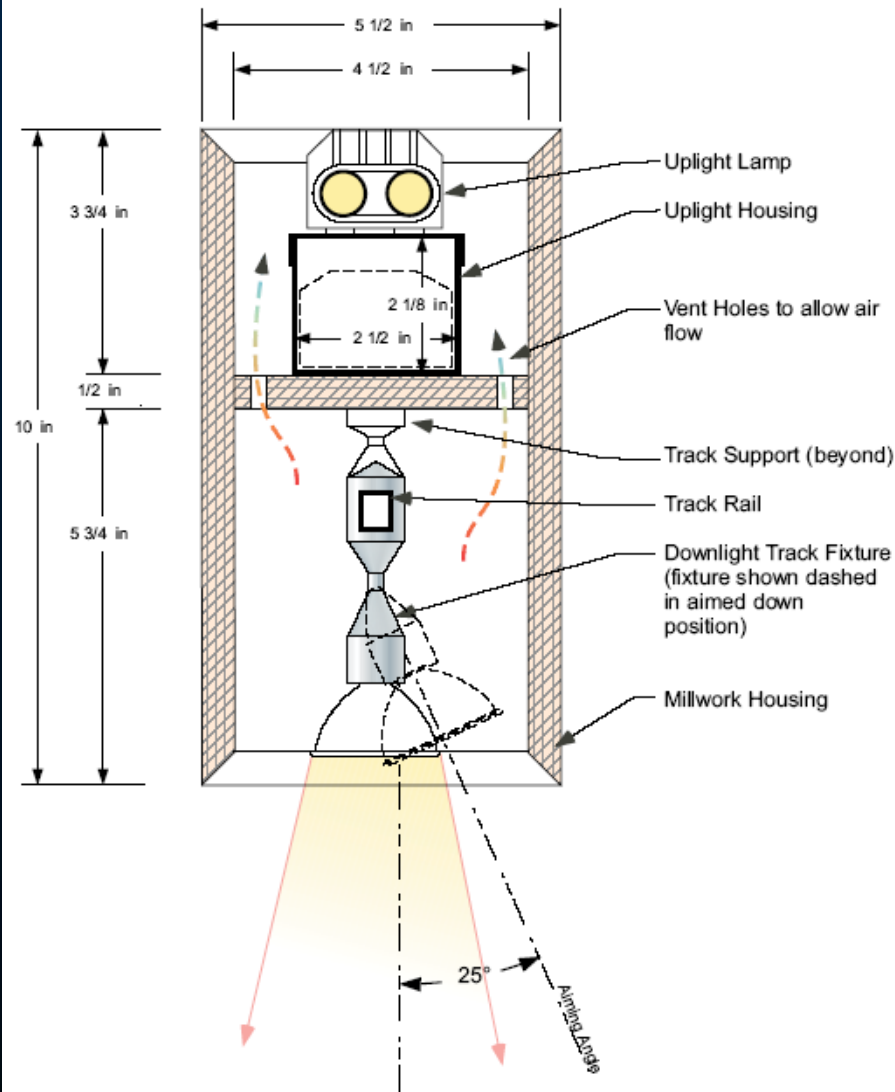
# Documenting Light Concepts



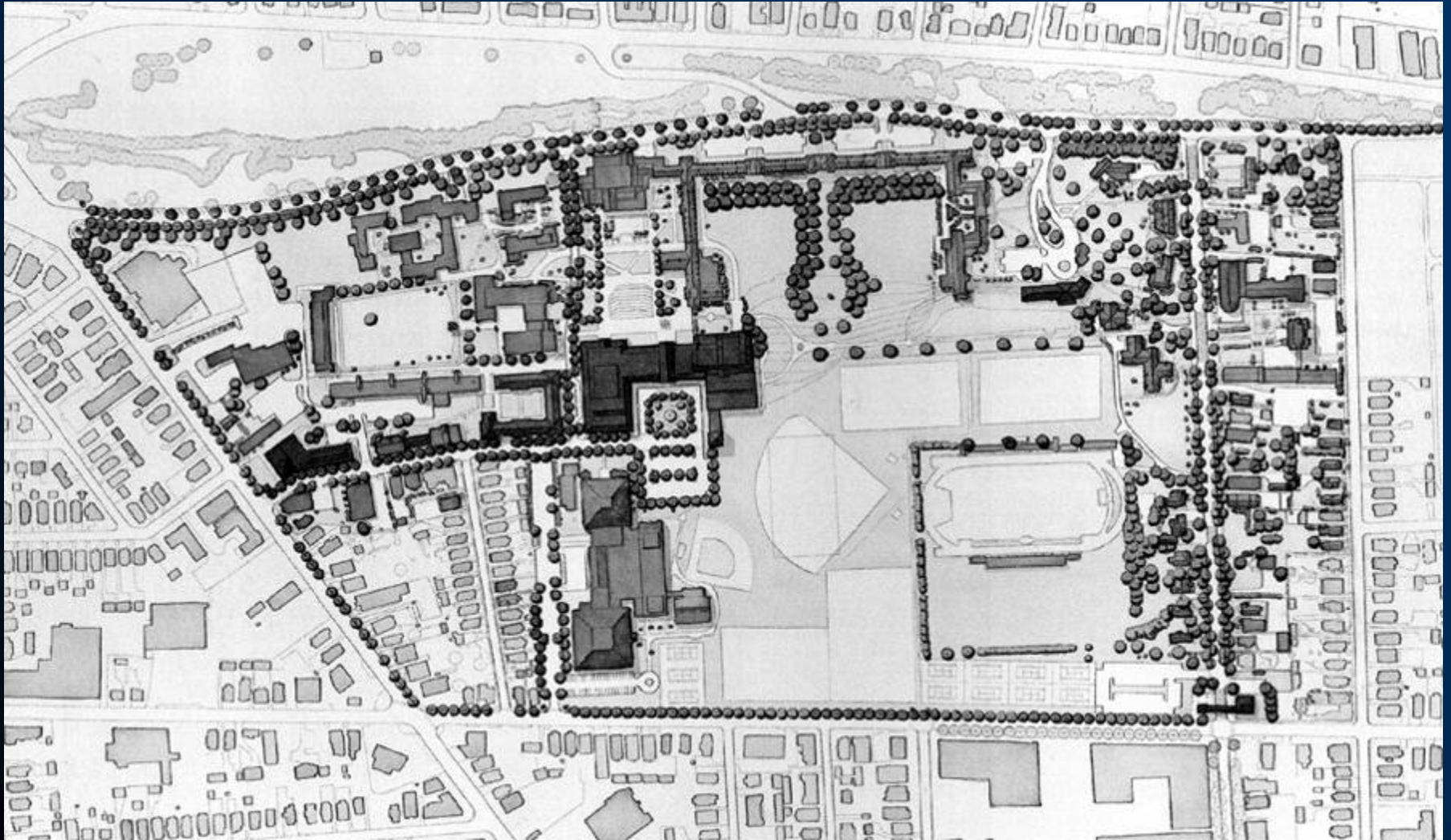
# Documenting Light Concepts



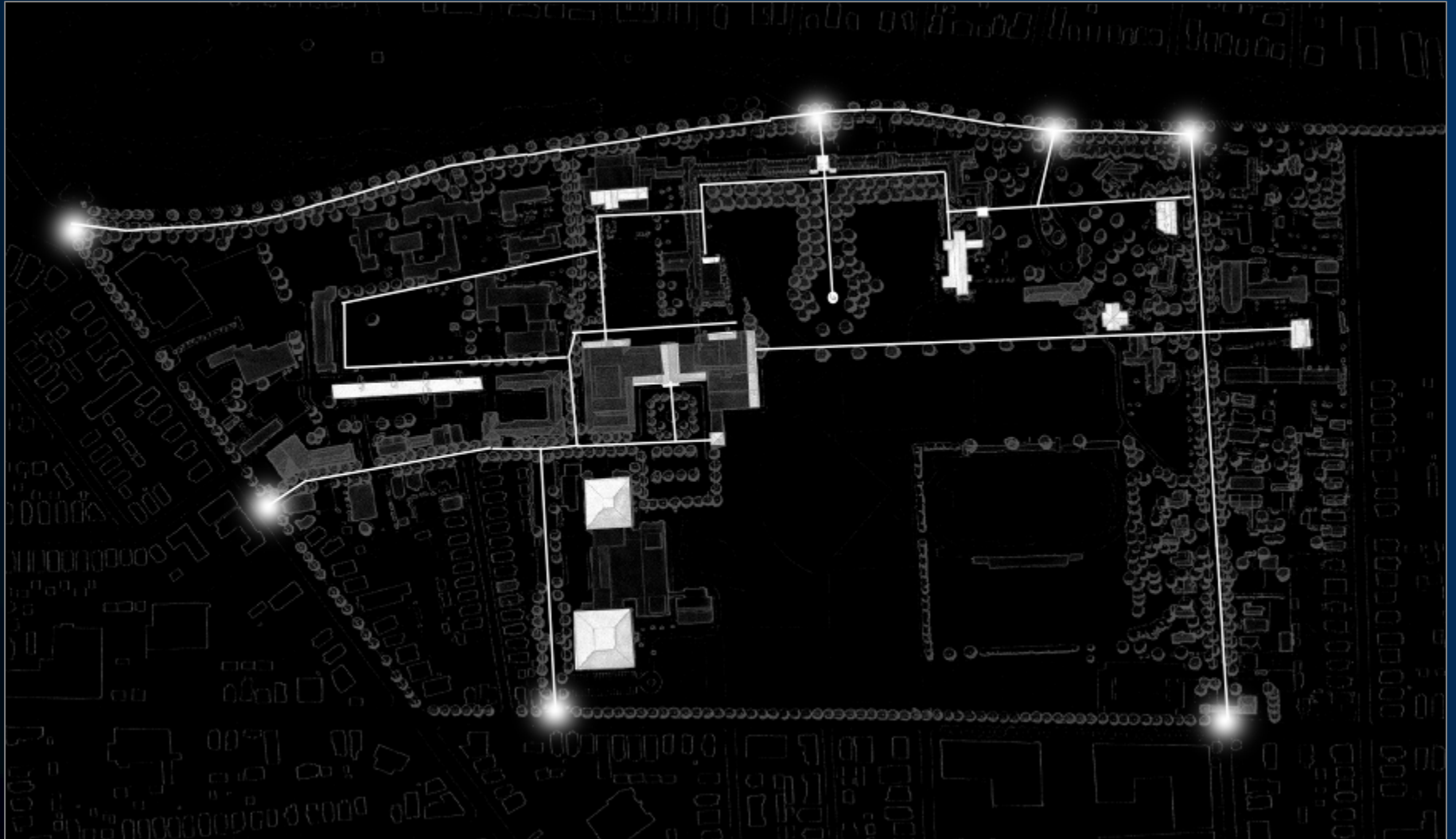
# Documenting Light Concepts



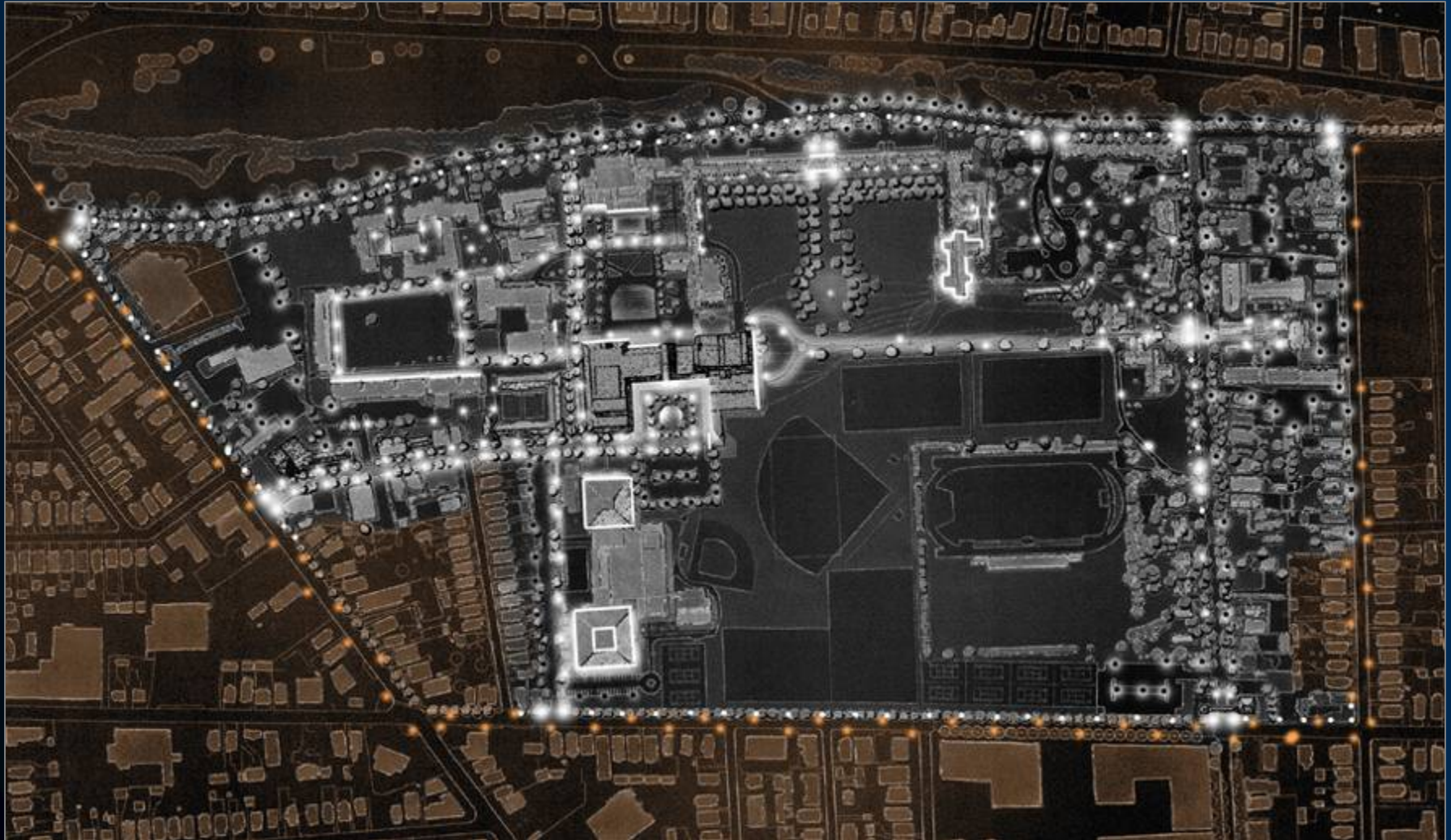
# Documenting Light Concepts



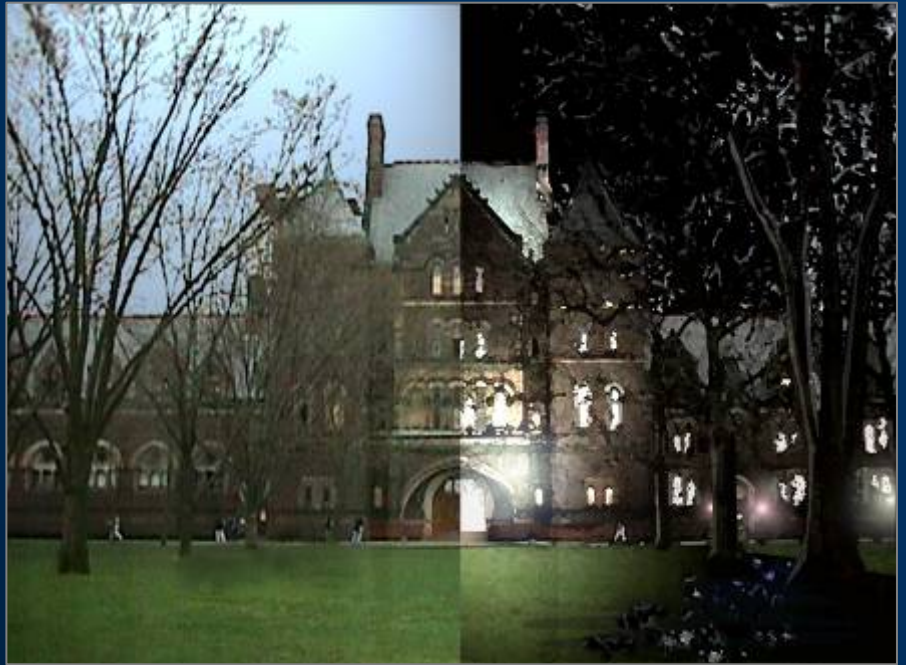
# Documenting Light Concepts



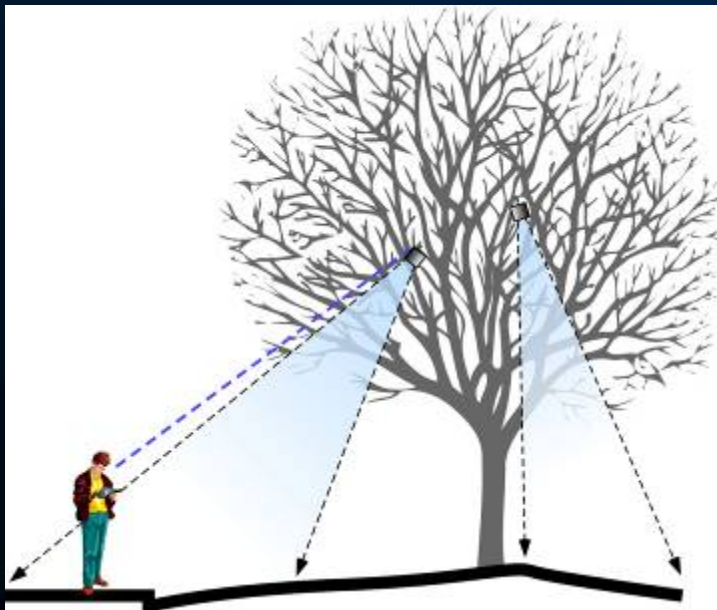
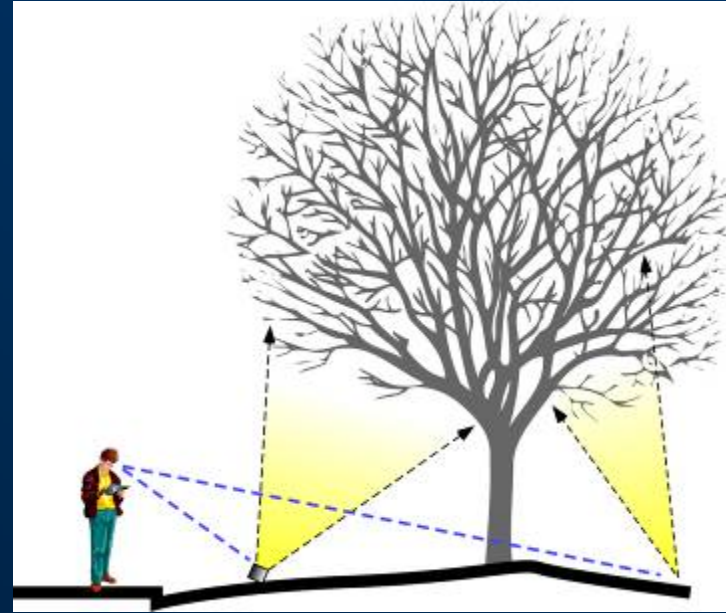
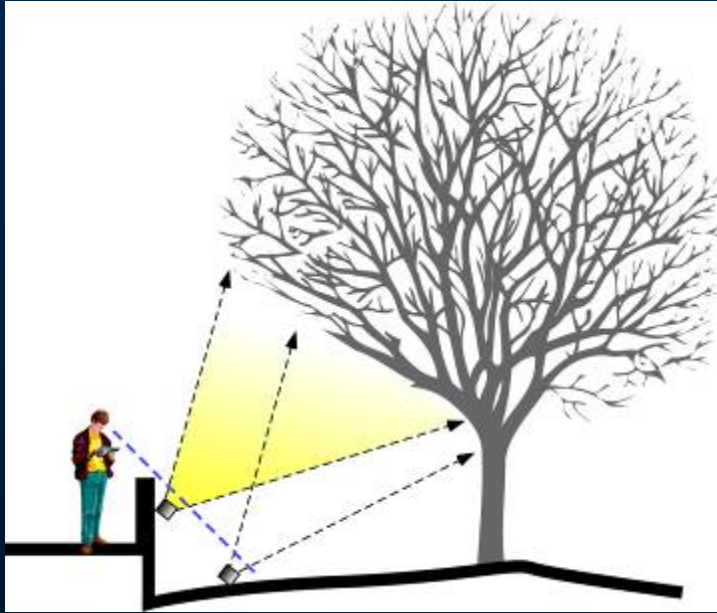
# Documenting Light Concepts



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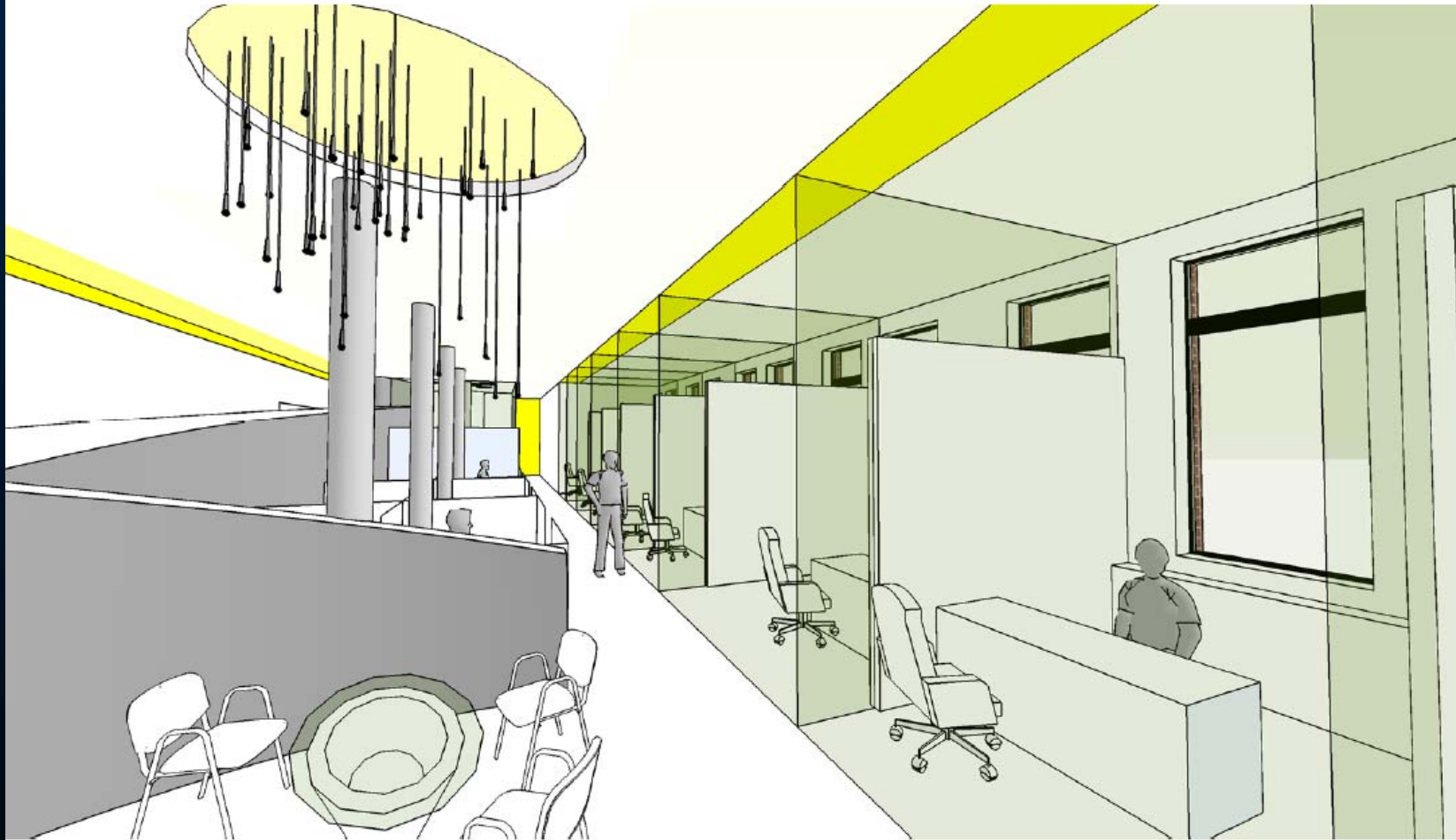




# Sketch-up Renderings



# Sketch-up Renderings



# Sketch-up Renderings



# Sketch-up Renderings



# Sketch-up Renderings

Cove above, behind mirror



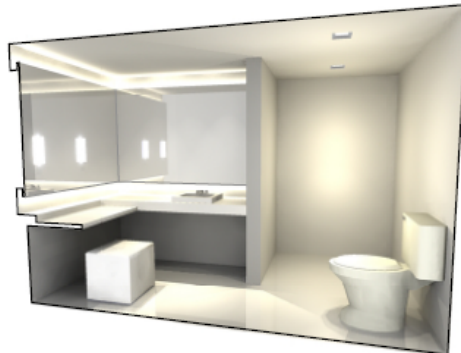
Cove above, behind mirror



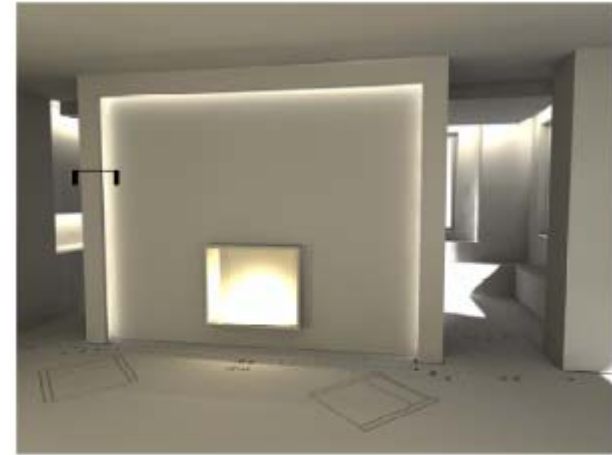
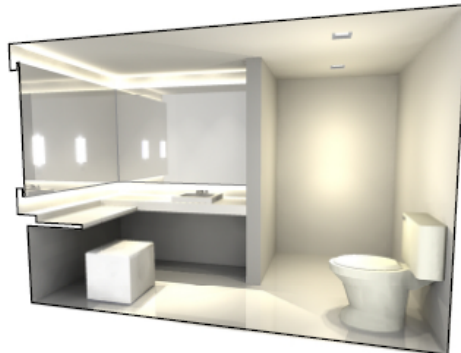
Backlit glass



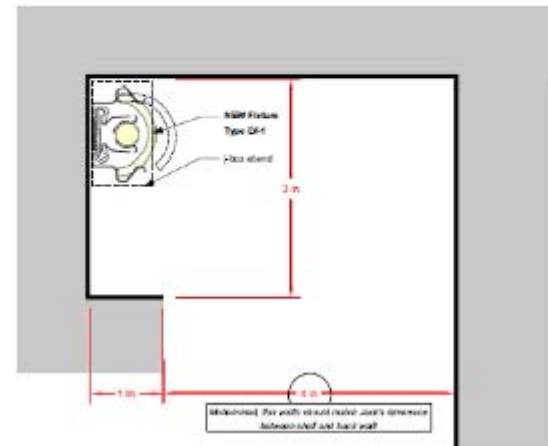
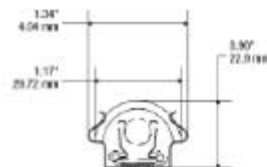
Cove above, behind mirror



Cove below, behind mirror

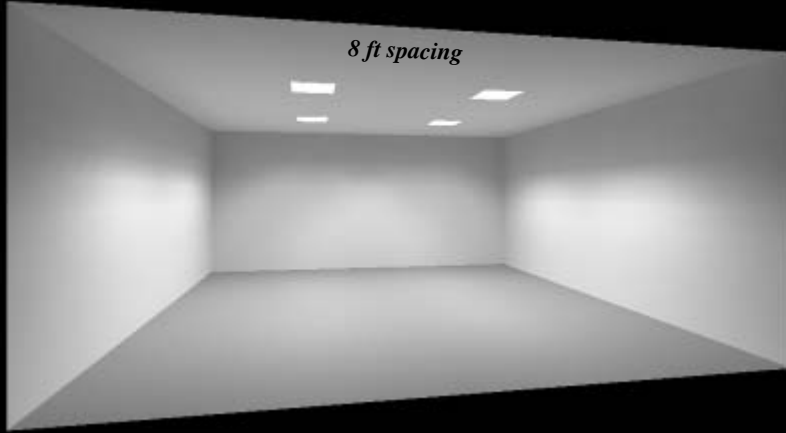


NEW Fixture Type LV-1 (same as in Joo's Sketches)



10 ft ceiling

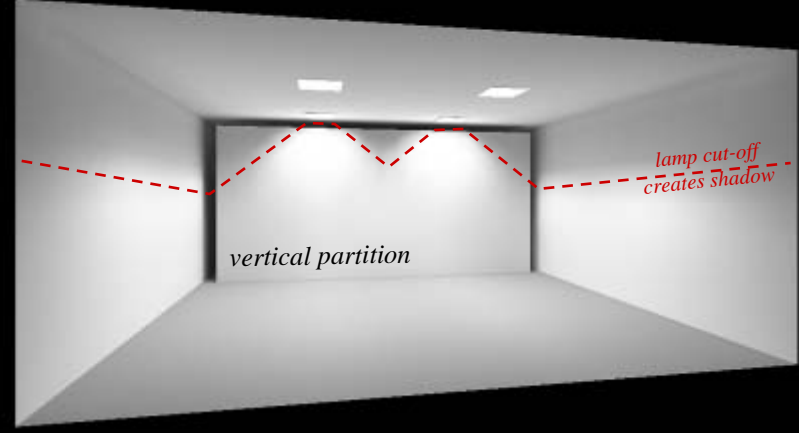
8 ft spacing



10 ft ceiling

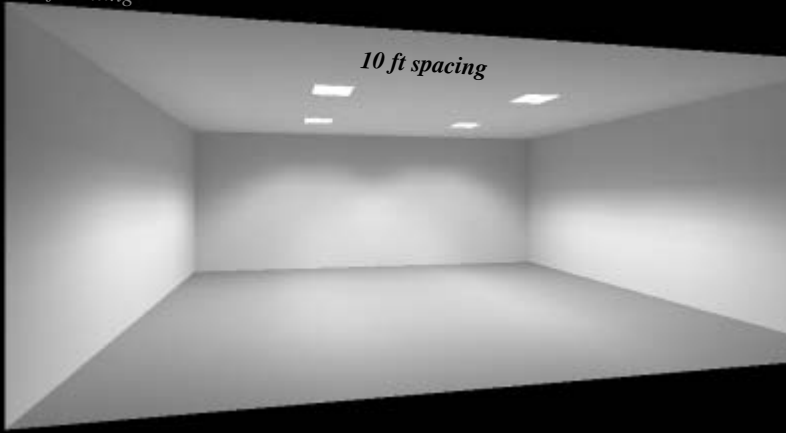
vertical partition

lamp cut-off  
creates shadow



10 ft ceiling

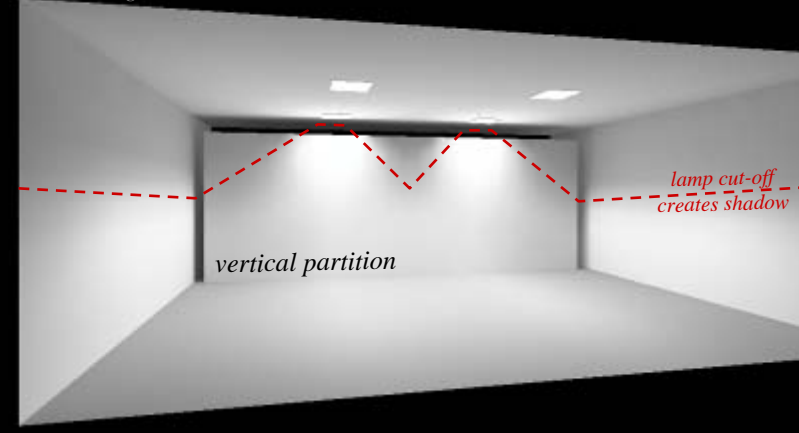
10 ft spacing



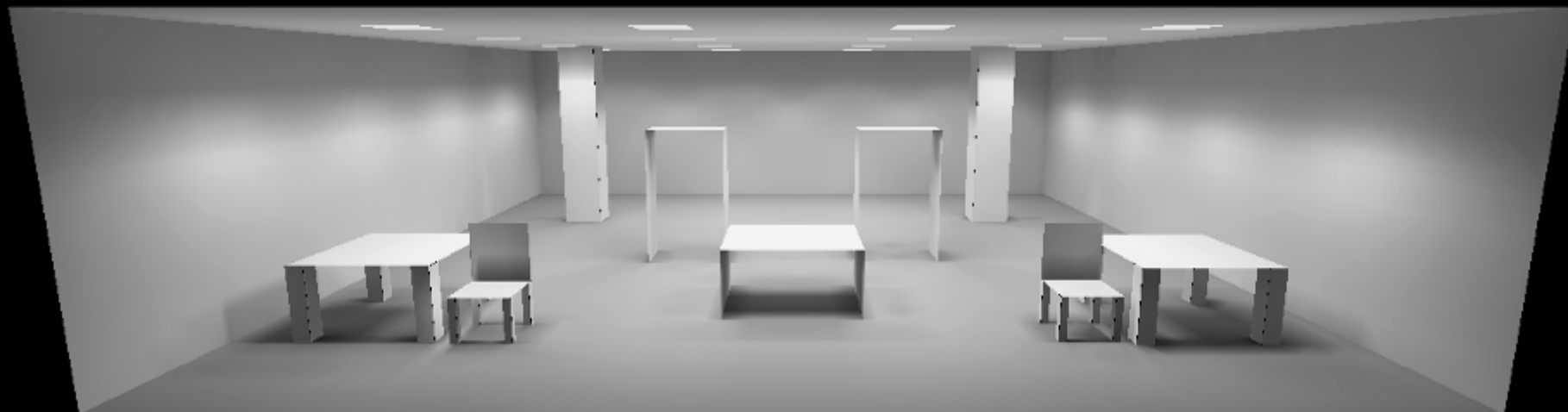
10 ft ceiling

vertical partition

lamp cut-off  
creates shadow

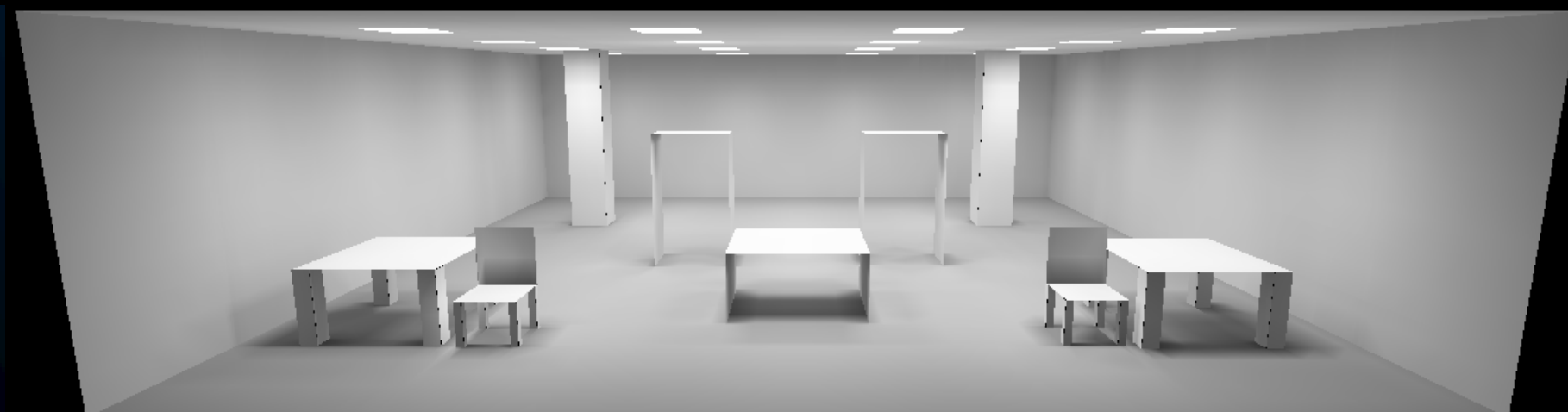


10 ft ceiling



2x2 Parabolic – 2x40CF – 8 ft x 8 ft Spacing – 36 ft x 36 ft Room

10 ft ceiling



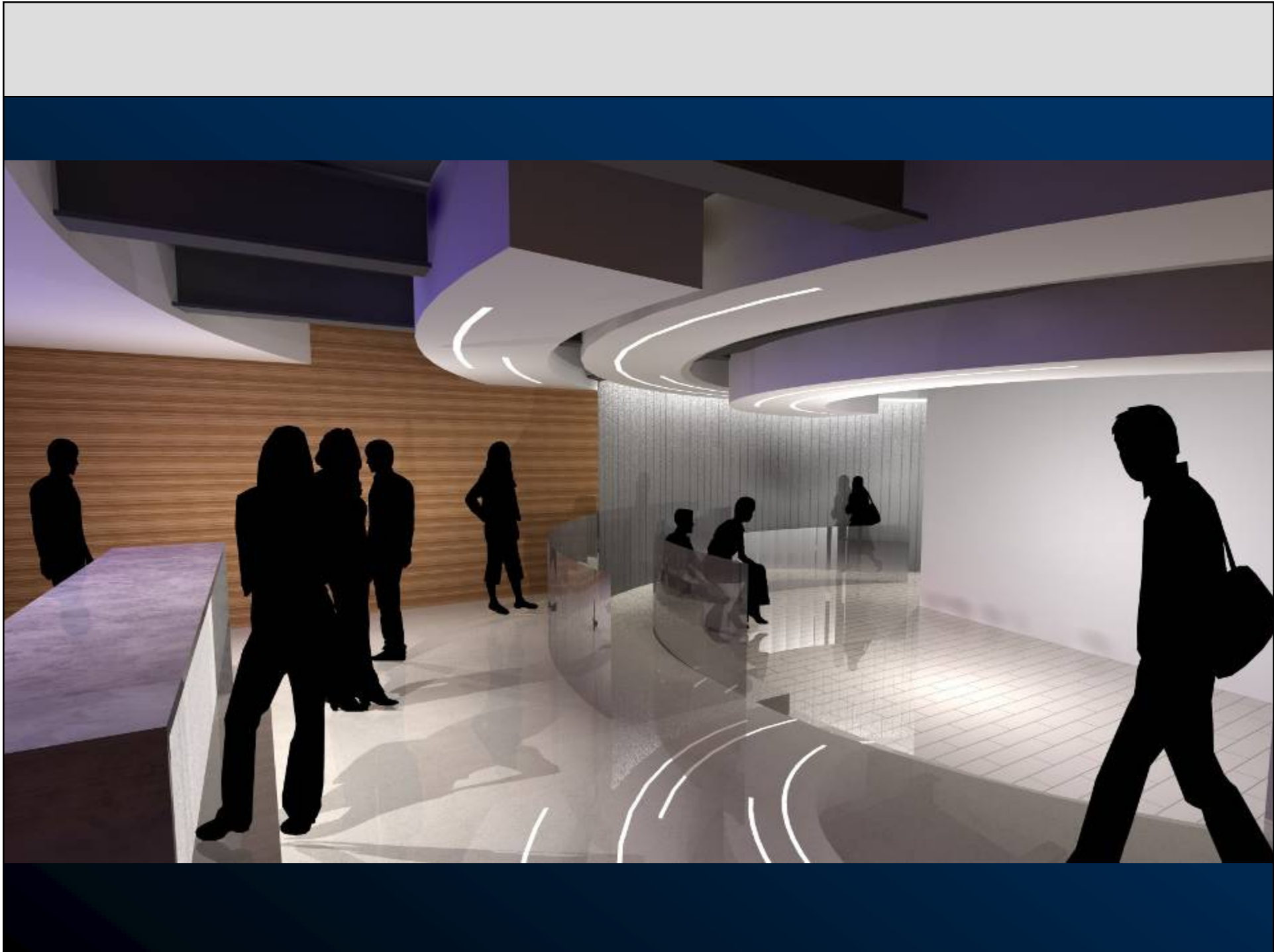
Alternate Fixture – 2x40CF – 8 ft x 8 ft Spacing – 36 ft x 36 ft Room



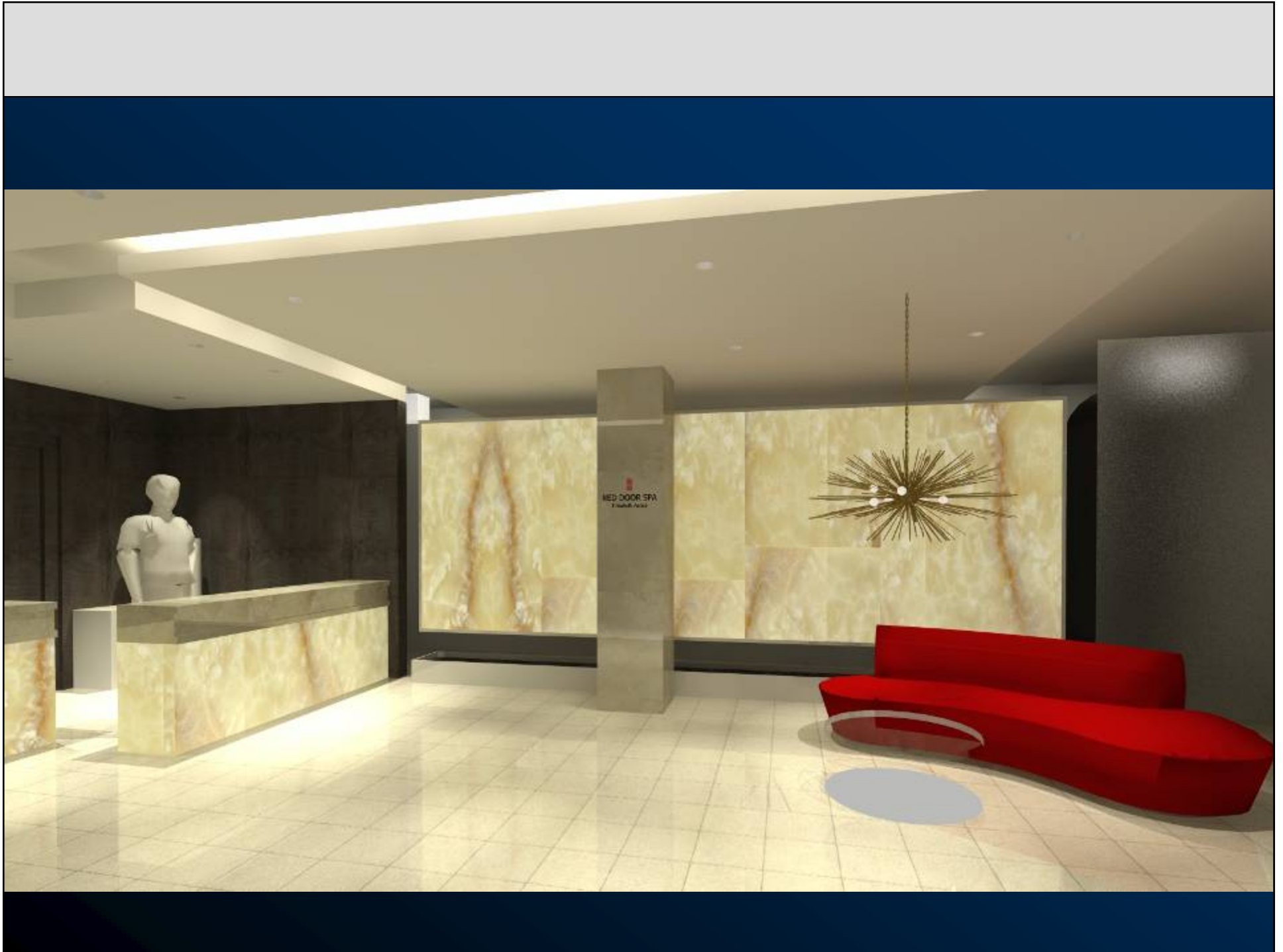


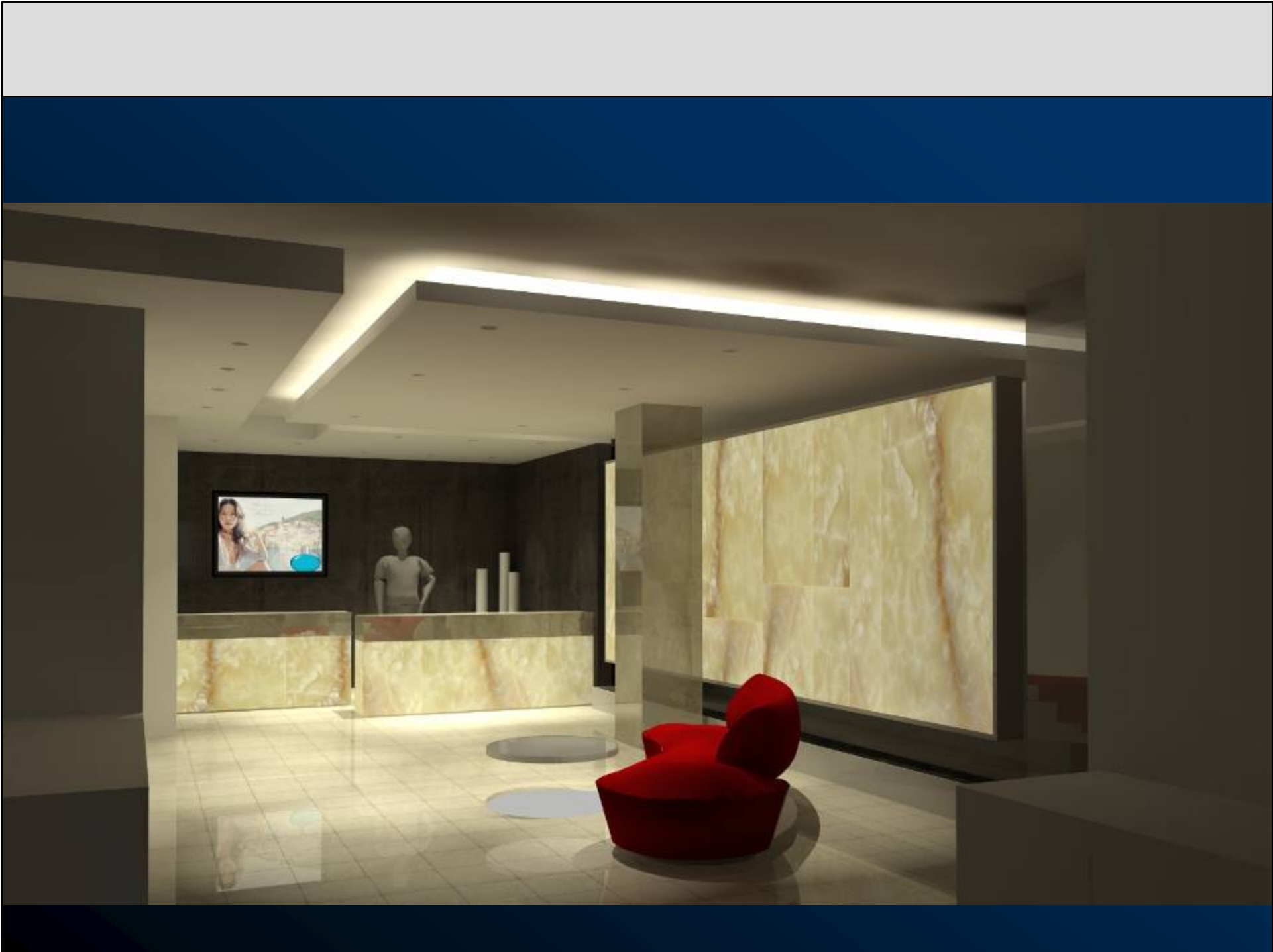














# Documenting A Lighting Plan

§ Concept

§ Drawing / Documentation

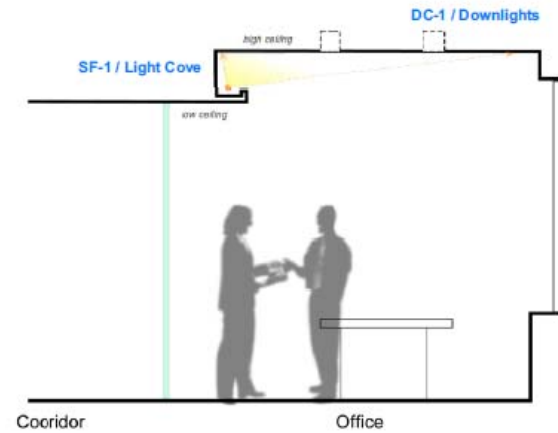
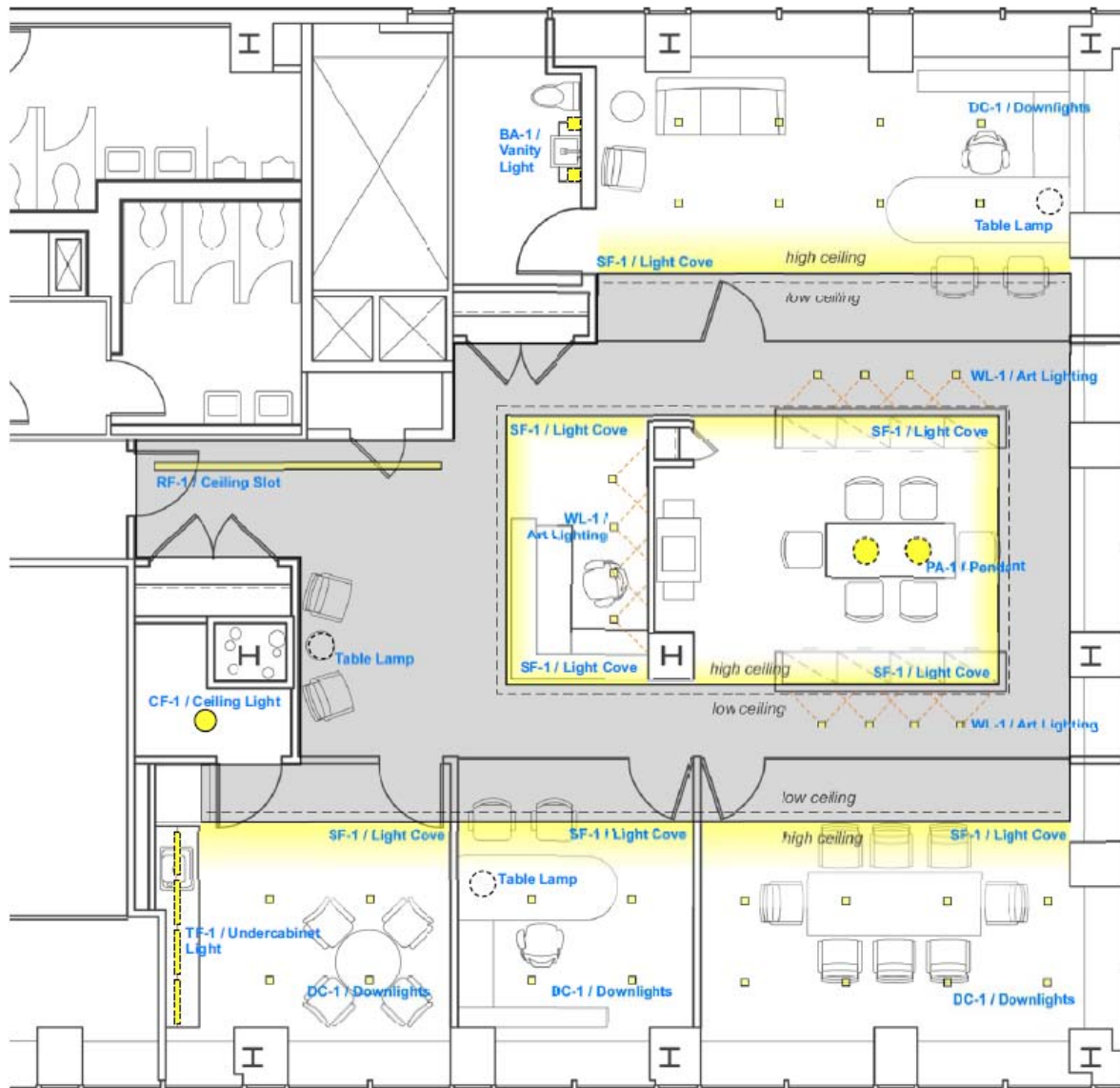
- *Layout*
- *Symbols*

§ Fixture Specifications

- *Fixture Descriptions*
- *Fixture Cuts / Mnfrs Submittals*
- *Fixture Details*



# Documenting A Lighting Plan: Specifications



Lehrman Office  
Schematic Lighting Layout

# Documenting A Lighting Plan: Specifications

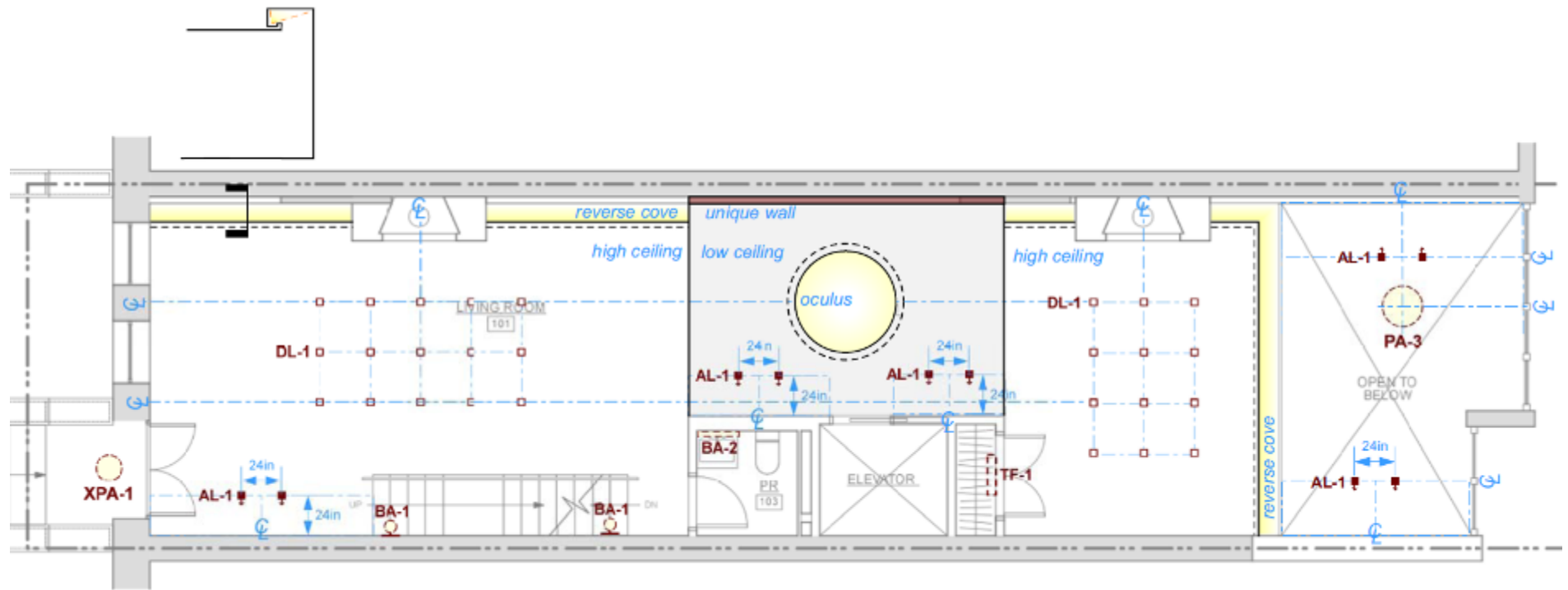
## Lighting Layout Plan



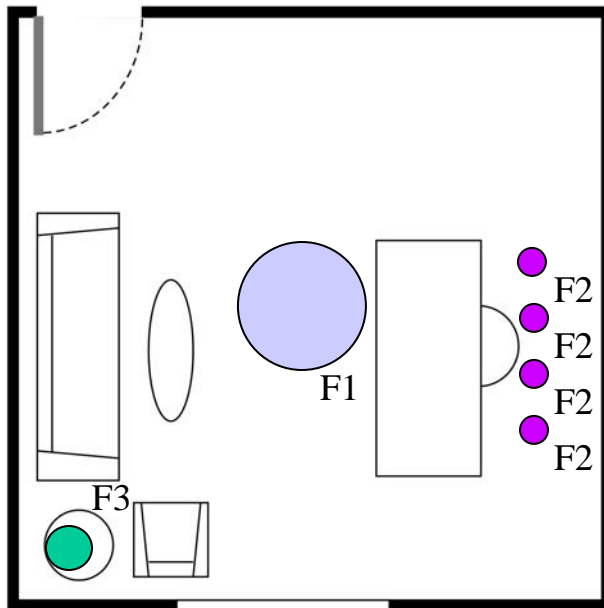
# Documenting A Lighting Plan: Specifications



# Documenting A Lighting Plan: Specifications



# Documenting A Lighting Plan



## *Fixture Specification*

Fixture Types:

F1 Pendant

F2 Wall Washers

F3 Table Lamp

# Type Designations (RS Lighting Design)

X	B	A	- 1
<i>Optional for Exterior Fixtures</i>	Function	Source (Lamp)	Number
	<b>A</b> Accent Light <b>B</b> Bracket/Sconce <b>C</b> Ceiling Light <b>D</b> Downlight <b>F</b> Floodlight <b>K</b> Other <b>L</b> Landscape <b>P</b> Pendant <b>R</b> Cove <b>S</b> Socket Strip/Channel <b>T</b> Task / Table Lamp <b>U</b> Uplight / Indirect <b>W</b> Wall Wash <b>Y</b> Track Fixture	<b>A</b> Arbitrary (Incand) <b>C</b> Compact Fluor. <b>D</b> Diode (LED) <b>F</b> Fluorescent (Tubular) <b>H</b> High Pressure Sodium <b>I</b> Induction <b>L</b> Low Voltage <b>M</b> Metal Halide <b>N</b> Neon <b>P</b> Parabolic <b>Q</b> Quartz Halogen	<i>Used to identify size, wattage, series, etc.</i>
<b>Other Misc:</b>	<b>BO</b> Bollard <b>CU</b> Custom <b>DS</b> Designer Select	<b>EX</b> Existing <b>YY</b> Track <b>FC</b> Fluor. Cove	

# Documenting A Lighting Plan: Specifications

§ Fixture Specifications ... *text format written as paragraphs or table*

1. Written Documentation to Describe Fixtures.....**Labeled by Type**

- *Mounting*
- *Description of Fixture Application*
- *Dimensions*
- *Material*
- *Performance*
- *Source / Lamp*
- *Finish*
- *Manufactures Model and Ordering Code*
- *Special Coordination or installation notes*

2. Fixture Cuts... **Labeled by Type**

- *Manufactures Catalog Cuts or Submittals*
- *Installation Details*

# Documenting A Lighting Plan: Specifications

## Text Format

Mounting Description of Fixture Application, Dimensions, Material, Performance, Source / Lamp

Finish

Manufactures Model and Ordering Code, Special coordination or installation notes



### Example:

Surface 12 inches high x 8 inches wide x 4 inch projection from wall, curved shaped glass diffuser with metal back plate for 100 watt frosted A-lamp

Finish: White glass with polished chrome metal

Mnfr: Flos "Venesia" model number 12345





# Documenting A Lighting Plan: Specifications

## Table Format

### 254 East 2nd Street Lobby Renovation, New York City




#### Light Fixture Schedule

Type	Description	Manufacture and Model Number	Lamp and Voltage
DC-1	<p><b>Downlight</b> Recessed heavy gauge downlight housing with overlap trim and 6-inch round aperture, nominal 10-inch deep.</p> <p>Finish: "Comfort Clear" Trim: White Overlap</p>	<p>Lightolier - "Calculite" Series <b>8021 CCLW</b>, plus "frame-in" kit <b>S6132BU</b> (electronic-nondim)</p> <p>Provide "Emergency Lighting Kit" <b>FAEM3E</b> (coordinate location with Architect)</p> <p>Fixture to be approved for NYC installation</p>	<p>(1) CF32DTEIN830 (by Osram/Sylvania)</p> <p>32 watt, 4pin amalgam, triple tube compact fluorescent, 3000 deg Kelvin, 82 CRI</p> <p>Voltage as determined by Electrical Contractor</p>
DC-2	<p><b>Downlight</b> Recessed heavy gauge downlight housing with overlap trim and 6-inch round aperture, lensed with Opal diffuser, nominal 10-inch deep.</p> <p>Finish: White Trim: White Overlap</p>	<p>Lightolier - "Calculite" Series <b>8091 DWHW</b>, plus "frame-in" kit <b>S6132BU</b> (electronic-nondim)</p> <p>Fixture to be approved for NYC installation</p>	<p>(1) CF32DTEIN830 (by Osram/Sylvania)</p> <p>32 watt, 4pin amalgam, triple tube compact fluorescent, 3000 deg Kelvin, 82 CRI</p> <p>Voltage as determined by Electrical Contractor</p>
SF-1	<p><b>Cove Uplight</b> Surface mounted above architectural cove, housing with splice box and thru wiring. Refer to sketch for tilt of housing within cavity. Nominal 6-inch wide x 2-inch high x 3, 4, or 8-foot long housings with end knockouts for power entry in continuous layouts, integral non-dim electronic ballast. Use 3-foot or 4-foot lamps only.</p>	<p>Lite Control - "Cove-25" Series <b>CC-AI-25-1-(length*)-T5HO-CWM-</b> <b>(volt)-(options**)</b></p> <p>* continuous lengths butted end to end as determined by field layout</p>	<p>(cont) FP39/830/HO, 36-inch (cont) FP54/830/HO, 48-inch (by Osram/Sylvania)</p> <p>T5, High Output, 39 watt and 54 watt, 3000 degree Kelvin, 82 CRI</p>

# Table Format

## Elizabeth Arden Store - 691 Fifth Avenue, New York City

### Light Fixture Schedule

Type	Description	Manufacture and Model Number	Lamp and Voltage
 <p><b>AL-4</b></p>	<p><b>Wash Light - at Sink</b></p> <ul style="list-style-type: none"> <li>- recessed above millwork ceiling one lamp MR16 lamp lensed wall wash light housing with splice box, and integral MagLV transformer. Contractor to coordinate mounting with ceiling conditions, mounting hardware and "remodeler frame-in-kit" requirements with Electrical Contractor, and finish ceiling details.</li> <li>- nominal 15-inch long x 5-inch recess depth above ceiling. Lens holder to contain optical assembly for wall wash distribution.</li> </ul> <p>Finish: Black interior with White overlap (*verify with architect if custom color is required)</p>	<p>RSA Lighting - "QuietCeiling" Series <b>QCT-2175-WH* trim</b> <b>QCT-906 housing</b></p> <p><i>*verify with architect if custom color is required</i></p>	<p>(1) <b>35MR16TNFL25C</b> (by Osram/Sylvania)</p> <p>35 watt, MR-16, 25 degree, "Tru-aim Titan" Hard Dichroic Reflector Cover Glass</p> <p>120 volt primary, 12 volt secondary MagLV transformer integral within fixture</p>
<b>DS-1</b>	<p><b>Mirror Sconce</b></p> <p>- provided by others</p>		3000 degree Kelvin, 82 CRI
 <p><b>CC-1</b></p>	<p><b>Ceiling Light</b></p> <ul style="list-style-type: none"> <li>- recessed above ceiling decorative flush to ceiling lensed fixture with splice box.</li> <li>- nominal 24-inch diameter x 7-3/4-inch recessed depth above ceiling. Contractor to coordinate mounting with existing conditions, and mounting hardware requirements with Electrical Contractor, and finish ceiling details.</li> </ul> <p>Finish: White</p>	<p>Mark Lighting - "Magellan" series <b>MG23-(volt)-(options)</b></p> <p><i>provide full range (1%-100% dimming ballast)</i></p>	<p>(4) FT40DL830/RS (by Osram/Sylvania)</p> <p>T5, 40 watt, Biax, 3000 degree Kelvin, 82 CRI</p> <p>Voltage as determined by Electrical Engineer</p>
<b>PA-1</b>	<p><b>Decorative Chandelier</b></p> <p>- provided by Owner</p>		Allow 300 watts incandescent
 <p><b>SD-1</b></p>	<p><b>RGB LED Grazer at Color Wall</b></p> <ul style="list-style-type: none"> <li>- surface within architectural millwork linear LED channel with adjustable mounting bracket (by mnfr) and power/data supply (by mnfr). Contractor to coordinate mounting detail and power entry with Architect.</li> <li>- housing to be extruded aluminum nominally 3-inch wide x 2-</li> </ul>	<p>Traxon Technologies - "Traxon Grazer" series</p> <p><b>GRAZER-3wattRGB-6x25distribution (lensed for softening) 6ft, 4ft, and 3ft layouts</b></p>	<p>3 watt, Red, Blue, and Green LED by mnfr</p> <p>120 volt</p>

# Finding Fixtures

- General Lighting Mnfrs Websites
  - [www.Lightolier.com](http://www.Lightolier.com)
  - [www.Erco.com](http://www.Erco.com)
- Light Fixture Search Sites
  - [www.LightSearch.com](http://www.LightSearch.com)
  - [www.eLumit.com](http://www.eLumit.com)
- Retail Sites
  - [www.Lightology.com](http://www.Lightology.com)
  - [www.unicahome.com](http://www.unicahome.com)
  - [www.lumens.com](http://www.lumens.com)
  - [www.100watt.net](http://www.100watt.net)