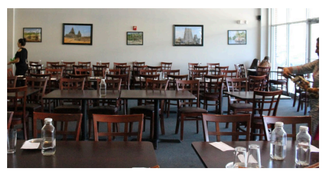
tower
South Indian Veg Cuisine

PROJECT INTRODUCTION:

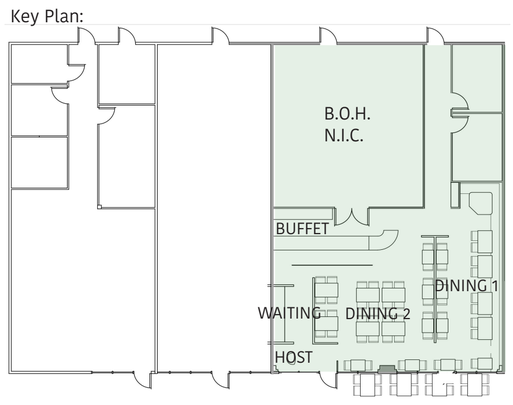
This project is for the restaurant redesign of Tower South Indian Cuisine in an existing restaurant. The clients include two business partners, both having moved from the Southern Indian region. A kickoff meeting was arranged with Srini Kolathur and wife Nita at the restaurant. The client wants to do a redesign to update and aid in areas like buffet and spatial flow. The space must include a buffet, and they desire to maximize the seating. The current restaurant focus is fresh food.



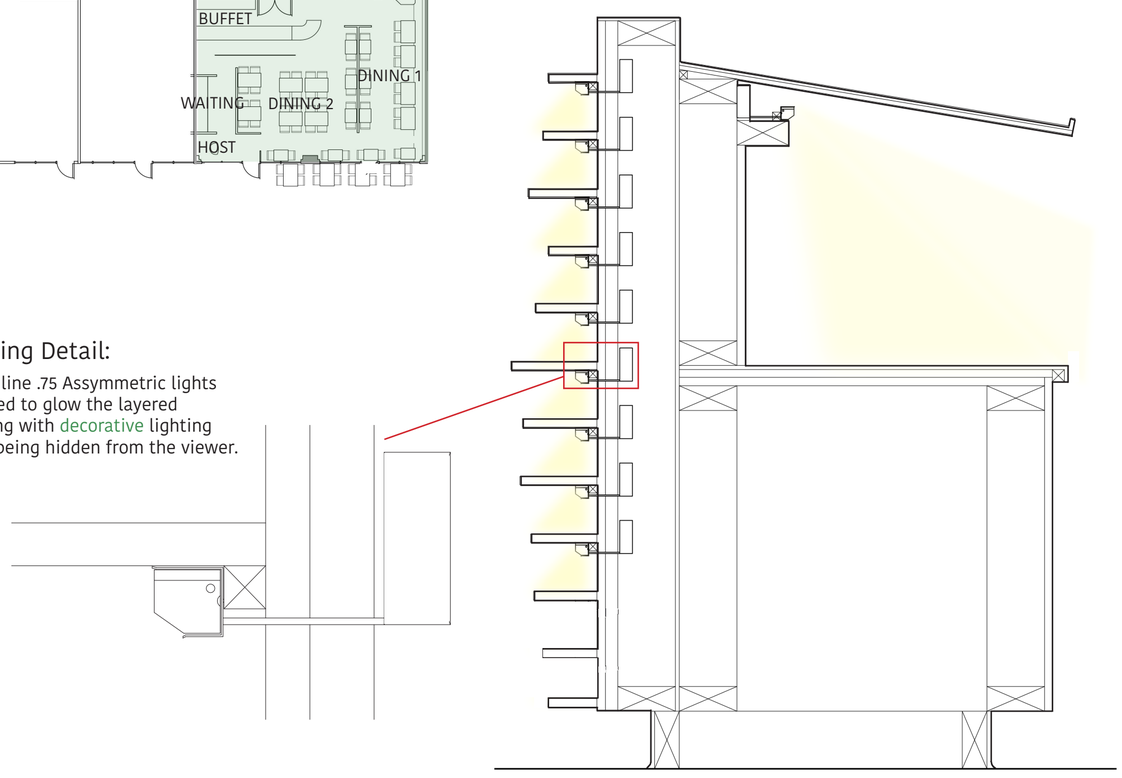
TOWER RESTAURANT LIGHTING EXISTING CONDITIONS:

-Lighting during the day is almost completely natural but without control and needs improvement. Due to the large windows at the front of the space that have no window treatments, the daylight washes out the space
-Existing lighting includes general ambient lighting in the grid ceiling, however task lighting on tables and other task areas is absent

Key Plan:



HOST STAND SECTION:



Lighting Detail:

io LED line .75 Assymmetric lights are used to glow the layered shelving with decorative lighting while being hidden from the viewer.

Host Stand Perspective

CONCEPT:

LAMINA

The Indian culture is one which is largely focused on the ideas of being "natural and fresh", especially when it comes to cuisine. The banana leaf is commonly the material used for serving food in Indian food service which pulls together the fresh, vegetarian dishes with sustainable clean waste-reduction. Lamina is described as *the expanded part of a foliage leaf; layer*. The layers of the banana leaf inspired my design because I believe it represents the layered focus on fresh vegetarian foods in Southern India.

PARTI'S:

LIGHTING NARRATIVE

As I enter Tower Restaurant, I'm greeted by the host stand illuminated with layers of ioLED's .75 Asymmetric Strip LED lighting which are hidden to emphasize the horizontal wood layering. Behind, a textured wall is grazed with a Neo-Ray Wall Wash Straight & Narrow 23XR LED light mounted to the ceiling a few inches from the wall. Ambient lighting is provided by the sleek ioLED .75 symmetric LED's that slip easily between the acoustic ceiling blades and allow enough lighting to show me to the waiting area which uses a ceiling mounted Wall Wash Straight and Narrow to illuminate the feature banana leaf wall.

I look to the buffet front which is grazed beautifully with another ioLED .75 symmetric Strip LED built-in under the counter edge. The food displayed on top is lit by seven Shaper pendants which provide task and accent lighting. The plates, which are resting in a cutout in the buffet cabinet, are illuminated with a built-in ioLED .75 asymmetric strip LED. The doors to the back of house are lit by RA56 SeleCCTable Series adjustable downlights.

As I move into the center dining room, ambient lighting from thin linear LED strips housed within Armstrong's suspended acoustic ceiling tiles guides me. Task lighting for the dining tables comes from Halo L808 LED track lights commissioned to feature each table.

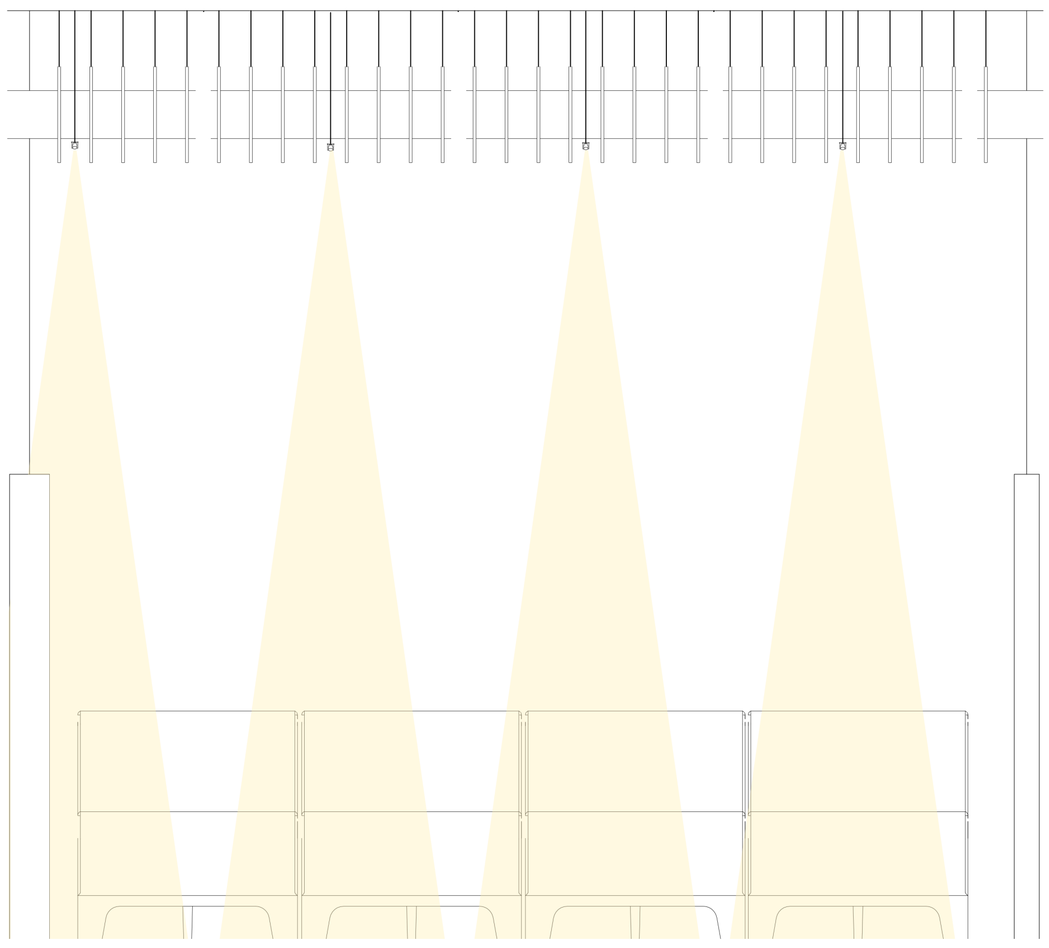
The banquette wall in Dining One stands out to me as it features several flush, horizontally mounted, Neo-Ray Define Wall Series LED fixtures to further reinforce the linear concept. I notice a ceiling feature identical to the design in the Waiting area covers this area with ambient lighting and task lighting for tables is again provided by aimed Halo track lighting.

I note that the lighting is very appropriate for the time of day and see that all lighting within the front third of the dining area is dimmed as it is programmed with the Greengate Daylight Sensor and has adjusted for the large amount of available daylight. This feature omits unnecessary lighting since Tower Restaurant is located in the Southeastern U.S. and is oriented so that the strorefront receives direct and strong daylighting for much of the day on many days.

As I head down the hallway to the restroom, simple Halo PR6 LED downlights provide ambient lighting. As I enter, the lights turn on using the dual-tech occupancy sensors placed above the doorway. Ambient lighting is provided by Halo PR6 LED Series downlights. Task lighting for the toilet stalls is delivered by Neo-Ray 79-PF LED wall washers which are recessed into the ceiling directly adjacent to the walls, grazing the walls and providing a nice glow of light for the tasks. The restroom mirrors are bordered with vertical Neo-Ray Define Series Wall application to provide a dispersed lighting that omits shadows from my face, creating flattering lighting.

All lighting is controlled by the iLumin Plus TSC30 Master Control Panel located in the back of house to allow for touchscreen control with user friendly graphics, easy enough for any employee to adjust by choosing a preset scene. The scenes are created to provide the correct mood and function for different times of the day to make restaurant patrons the most comfortable. The iLumin 9- Ineo CLS control panel is located on a half wall by the host stand to allow for easy access for the hostess as well.

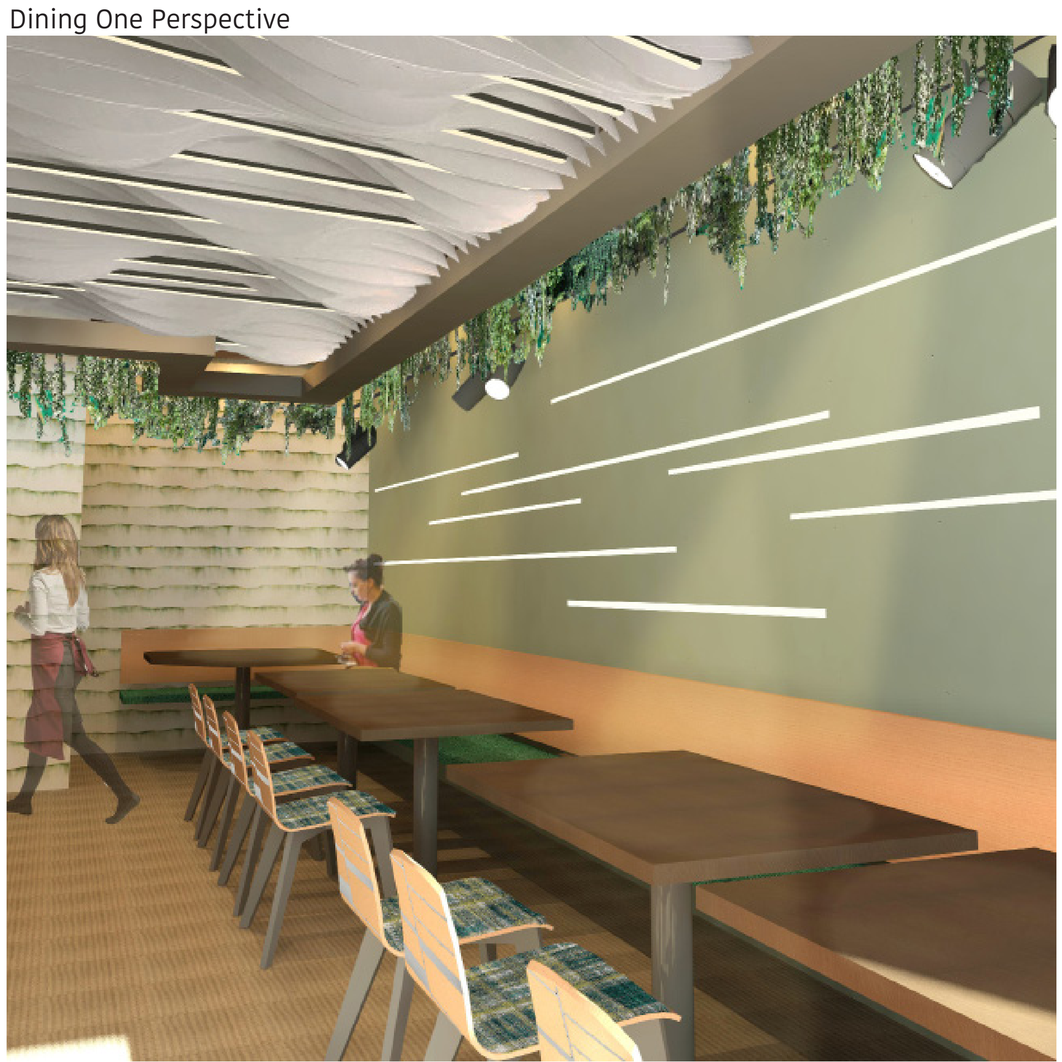
BEAM SPREAD DIAGRAM: WAITING AMBIENT LIGHTING



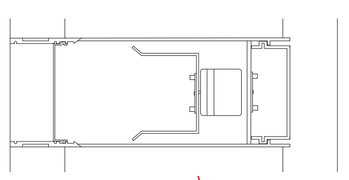
ioLED line .75 Symmetric lighting is suspended between layered acoustic blades to provide general ambient lighting to the waiting and host areas. The lights are dimmable to provide lower lighting levels.
10 Degree Beam Spread

Dining 2 Perspective

Dining One Perspective

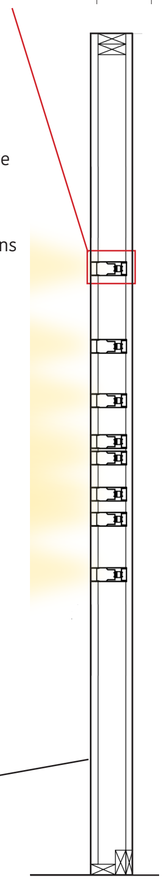


DINING ONE WALL SECTION:

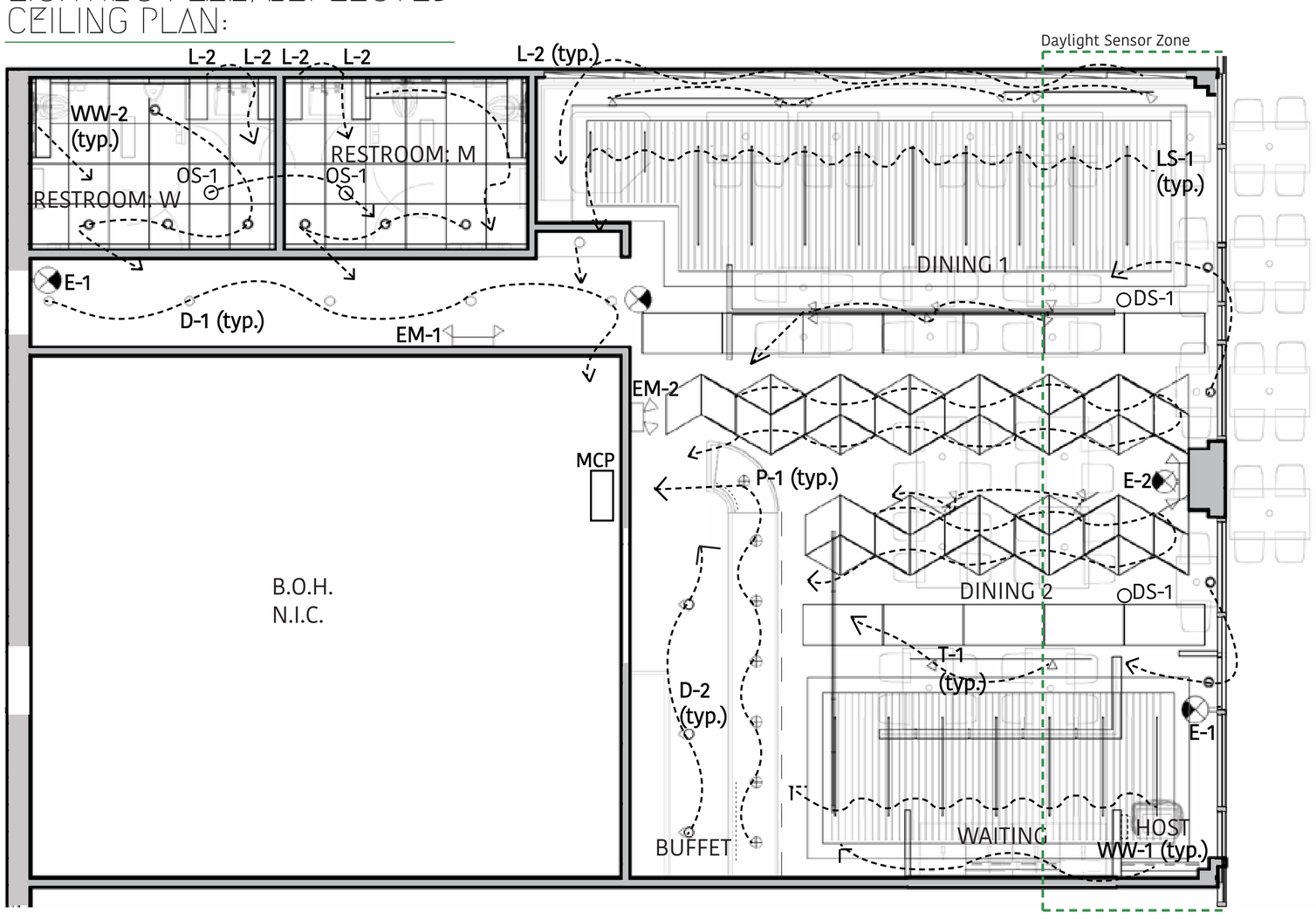


Lighting Detail:

The Neo-Ray Define Series seen in the Dining One Perspective to the left provide decorative lighting through a linear application. A satin lens covers the lamp.



LIGHTING PLAN/REFLECTED CEILING PLAN:

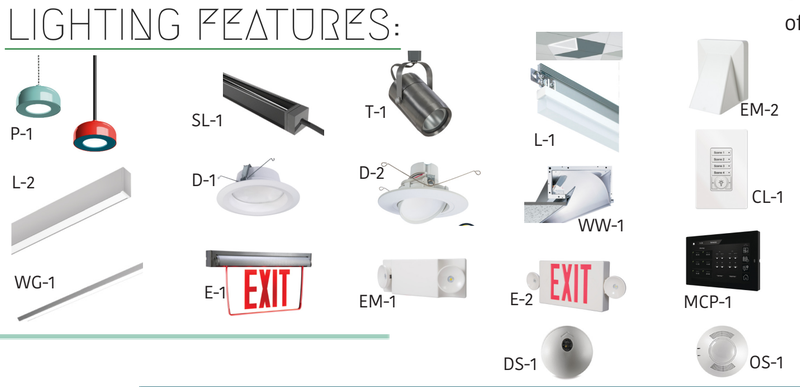


FIXTURE SCHEDULE:

***All non-emergency lighting on dimmable**

Tag	Symbol	Description	Manufacturer	Model #	Lamp	Watts	Mounting	Switching
D-1		Downlight	Halo Commercial	PR6R-FS12-DO10-REM7 - PR6M-12-MD-9FS-BZ	LED	10	Retro t-frame arm attaches to the LED module with knurled thumb screws	MCP
D-2		Downlight Wall Washer	Halo Commercial	RA56069S1EWH-H750RICAT	LED	7	Torsion Spring	MCP
P-1		Pendant	Shaper	1400-DOME-90-L30-120-SAL-TCS-RS-CL-DOME-BM	LED	12	Suspended; Rigid Stem to Junction Box	MCP
L-1		Linear	JLC-Tech	TBFL-HW-49-15-B2-A-W	LED	22.4	Integrates with Armstrong Ceilings DESIGNFlex 15/16" Prelude®	MCP
L-2		Linear	Neo-Ray	S122DW-130-_-1D-UDD-3-W-SVPD1-90	LED	27.9	Interior Wall Installation	MCP
L-3		Linear	io LED	0.03-1W-830-10-ID-STD-UNV-AN-SM-_	LED	4.4	Surface Mounted	MCP
L-4		Linear	io LED	0.03-1W-830-90-ID-STD-UNV-AN-SM-	LED	1.1 W/ft	Surface Mounted	MCP
SL-1		Suspended Linear	io LED	0.03-1W-830-10-ID-STD-UNV-AN-AM-5FO	LED	21	Suspended; Pendant with single aircraft cable and circular canopy.	MCP
T-1		Track	Halo Commercial	L-8-08-_-NF-90-30-_	LED	3.6	Track	MCP
WG-1		Wall Graze	Neo-Ray	23XR-2-L30-GYP-3-120-STD-1-D-CC	LED	37.3	Recessed	MCP
WW-1		Wall Washer	Neo-Ray	S79PF-2-L35-2-UDD-1D-W	LED	28.9	Recessed Ceiling	MCP
E-1		Exit	Sure-Lites	EUX6-2-R-BK-_	LED	0.9	Surface Wall Mount	N/A
E-2		Exit	Sure-Lites	EUX6-1-R-BK-_	LED	0.9	Surface Wall Mount	N/A
EM-1		Emergency	Sure-Lites	SEL-50-_-BK-SD-SQ-	LED	1.02	Surface Wall Mount	N/A
EM-2		Emergency	Sure-Lites	SELA-29-SD-	LED	1.02	Surface Wall Mount	N/A
MCP-1		Master Control Panel	iLumin Plus	TSE55-B	LCD	N/A	Surface Wall Mount	N/A
CL-1		Control Switch	iLumin Plus	CLS-4-TSB-RL-W-IR	N/A	N/A	Surface Wall Mount	N/A
OS-1		Occupancy Sensor	Greengate	OAC-P-0500	N/A	N/A	Ceiling Mount	MCP
DS-1		Daylight Sensor	Greengate	DSRC-FMOIR	N/A	N/A	Ceiling Mount	N/A

LIGHTING FEATURES:



Total watts per square foot = .82 which meets the requirement of state building code for "Dining: Family" of .95 watts per square foot

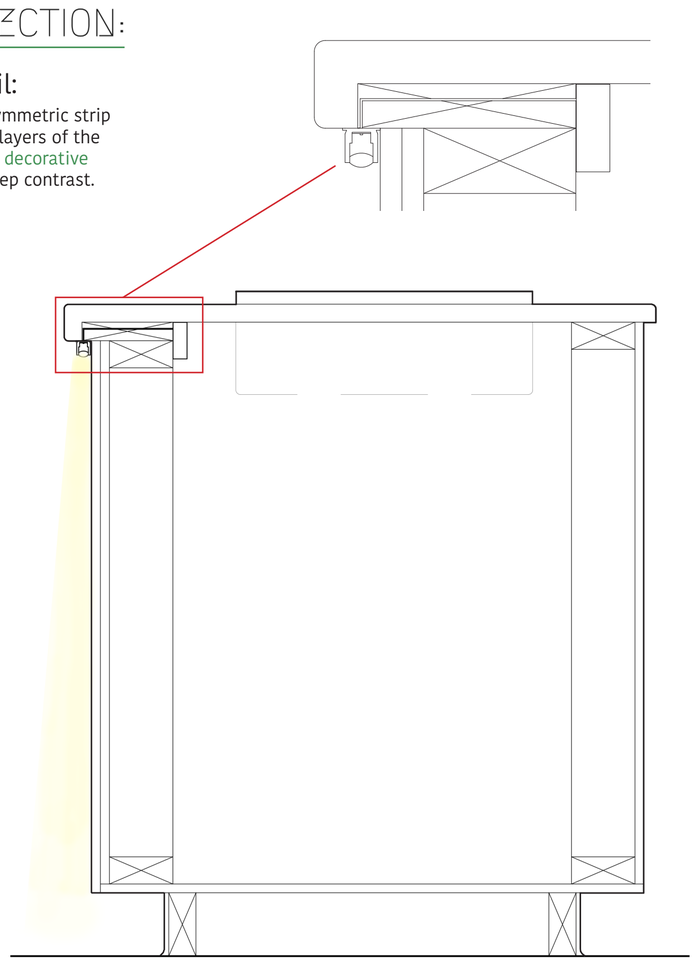
Tower Restaurant features sustainability through the installation of all LED lights that are on dimmable switches. Task lighting is included only where necessary such as above tables and above the buffet. The restrooms feature occupancy sensors and the dining area features daylight sensors.

Daylight is integrated from a curtain wall, however, the windows are treated because the curtain wall is located on the southeast side of the building, thus certain times of day natural light washes out the dining areas with too much light for a restaurant atmosphere. For this reason, daylight sensors are also integrated into the space.

BUFFET SECTION:

Lighting Detail:

The io LED line .75 Symmetric strip grazes the crevaced layers of the 3Form paneling with decorative lighting to create deep contrast.



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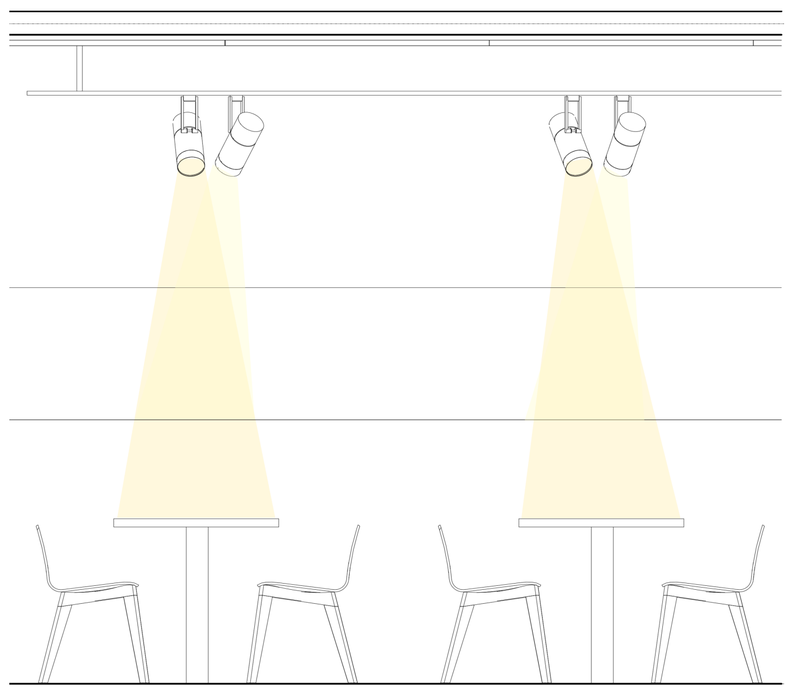
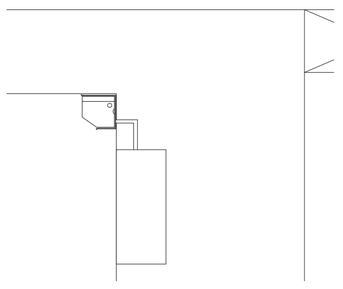
BEAM SPREAD DIAGRAM: TABLE TRACK LIGHTING

Located in dining one and two, Halo L808 LED Track Fixtures provide task lighting for each table to allow for clear visibility for restaurant customers.
14 Degree Beam Spread to fully illuminate tables.

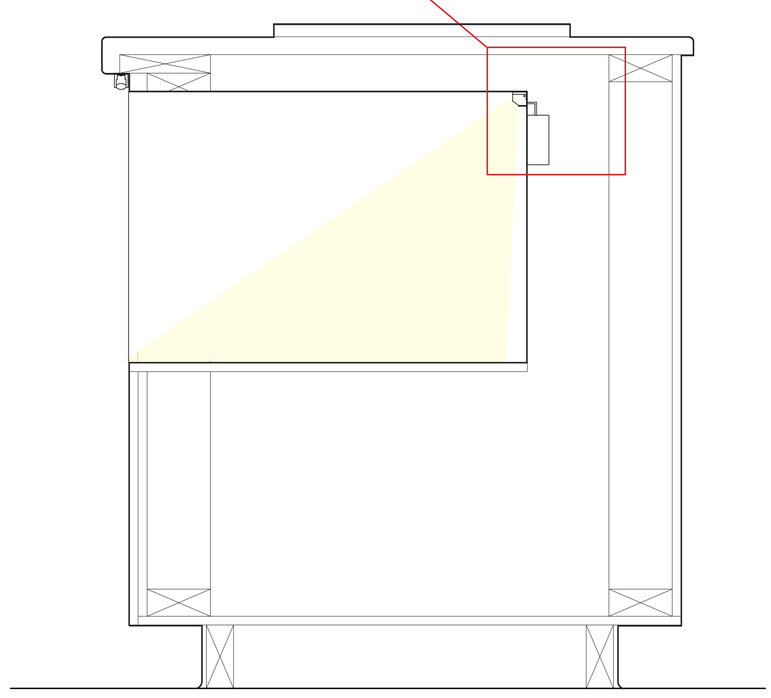


BUFFET PLATE SHELF SECTION:



Lighting Detail:

The io LED line .75 Assymmetric strip sends linear beams of task lighting to illuminate the layers of glinting plates.



Buffet Perspective