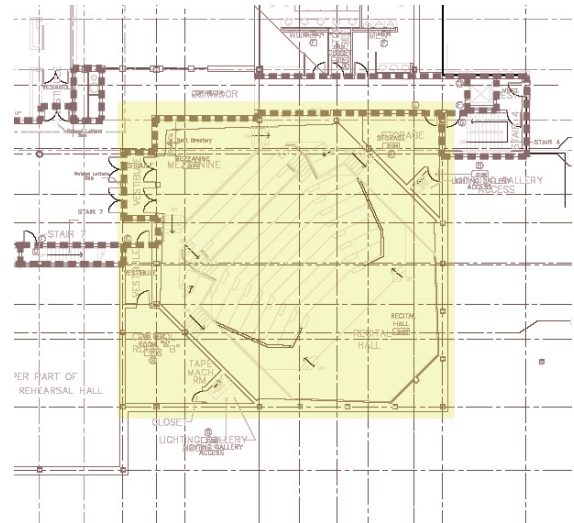


## DESIGN GOALS

The Hockett Recital Hall is a key feature of the Whalen Center. The new 250 seat auditorium is intended as a supplement to the 1200 seat Ford Auditorium which the Whalen Center surrounds. The intent was to have a more intimate venue for performances by soloists and small ensembles. The dark wood panels surrounding the stage evoke a warm and calm feeling. The sloping white gypsum ceiling has a large air plenum in the center which is designed to avoid the noise associated with traditional HVAC air diffusers.

The ceiling and upper walls are detailed with alternating gypsum panels recessed 4". This is a design element which reduces direct sound reflections and scatters the sound through the space. A floating 'acoustic cloud' visually frames the stage and provides a mounting location for stage lighting. The architectural lighting in the recital hall should enhance the intimate feeling this space was intended for. Warm light sources and smooth luminance distributions will achieve this effect. The architectural lighting in this space must be dimmable in order to achieve the different appearances and transitions required in a professional performance venue. The recital hall will be used for student performances as well as workshops where there will be interaction between the performer and the audience. This requires that an illuminance of approximately 20 fc reach the audience seating level to support reading of program materials and for presenters to interact with the audience.



carpet  $\rho=.3$     gray paint  $\rho=.5$   
 wood paneling  $\rho=.4$   
 painted gypsum ceiling  $\rho=.7$

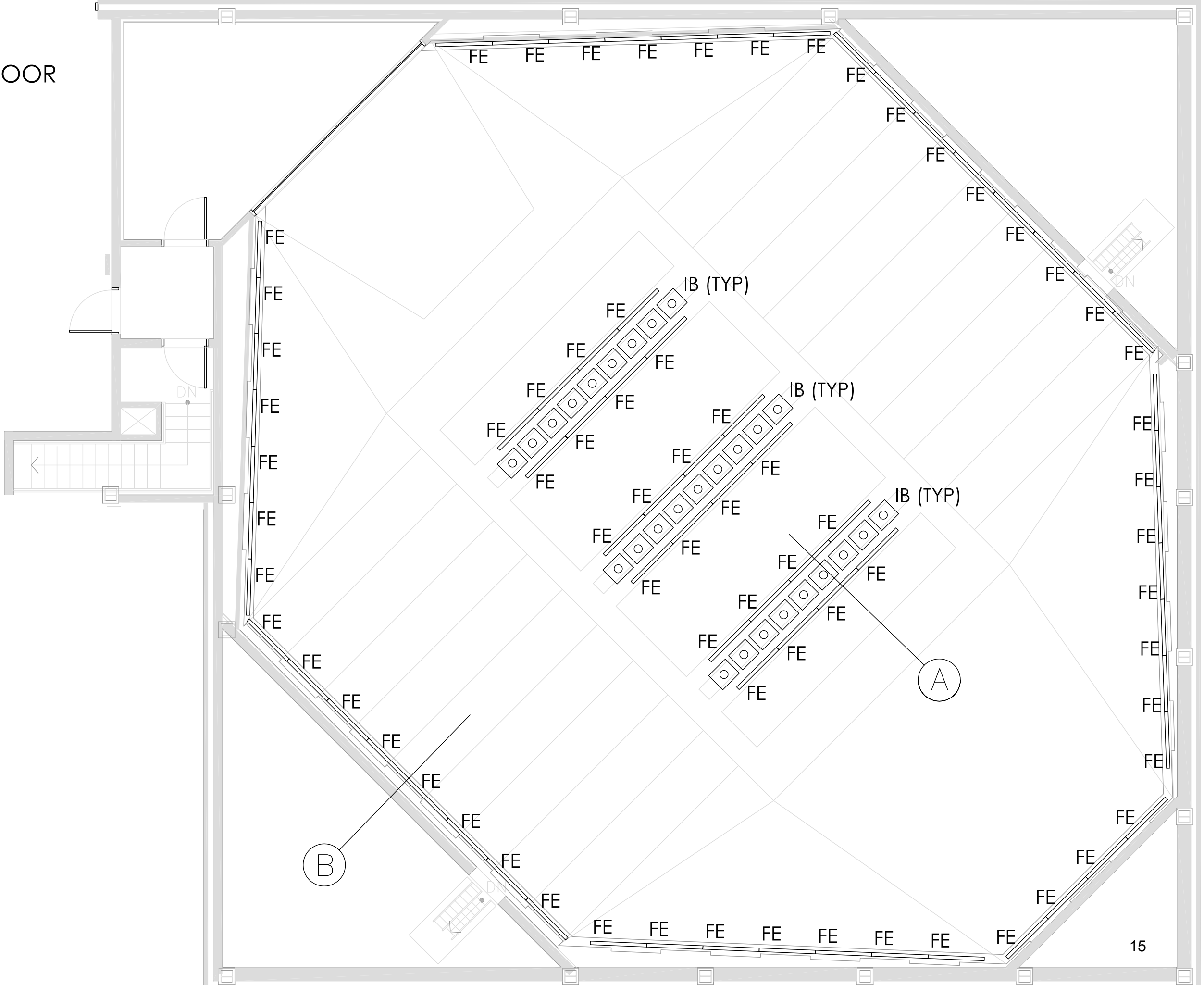
## DESIGN SCHEMATIC

The functional light in the space will be provided by 100 W PAR-38 halogen infrared adjustable downlights (type IB) from Kurt Versen. ([www.kurtversen.com](http://www.kurtversen.com)) Nine of these luminaires will be mounted on each of the three panels suspended below the openings to the air plenum in the center of the ceiling. The fully adjustable and lockable assemblies will be aimed to give even distribution of illuminance across the audience seating area. Eight F28T5 striplights (type FE) from Columbia ([www.columbialighting.com](http://www.columbialighting.com)) will also be mounted on each suspended panel. The suspended panels will be connected to lowering equipment which will bring the panels down to the seating level for luminaire maintenance and relamping. Continuous rows of FE luminaires will also be placed along a decorative ledge approximately 4' below the wall/ceiling intersection. The FE luminaires will be fitted with dimming ballasts so they can be controlled with the house dimming system along with the IB luminaires.

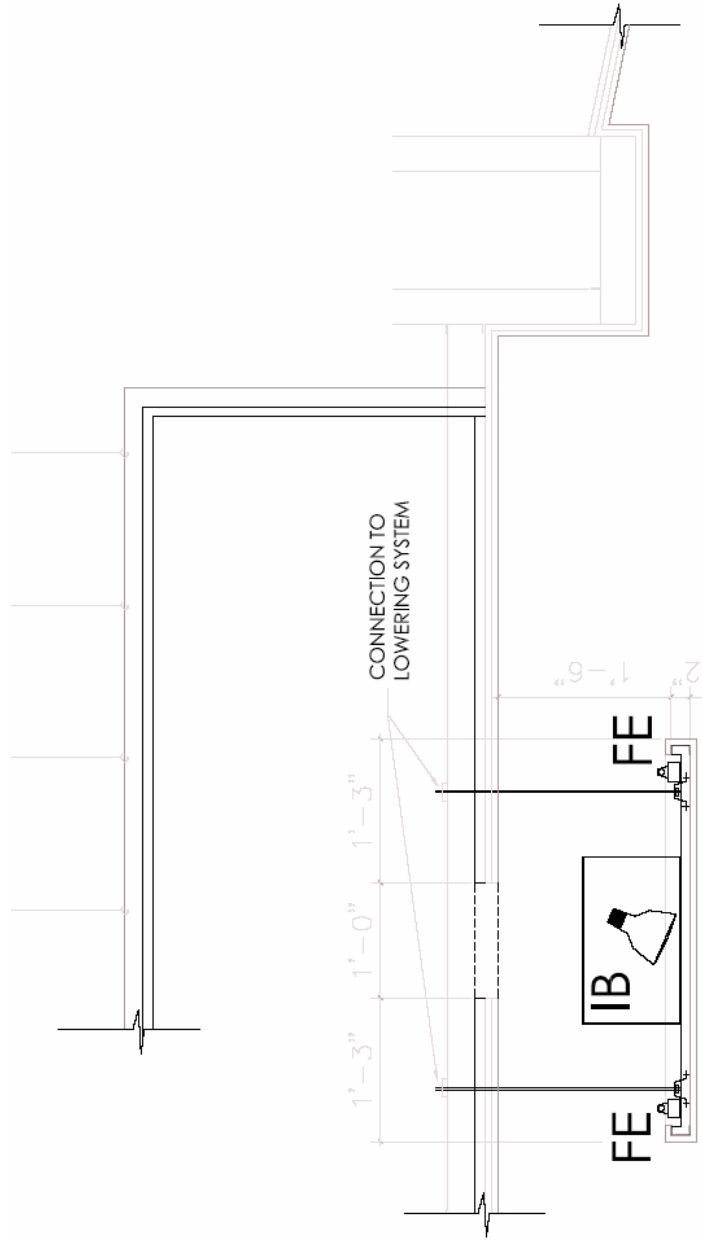
## LIGHTING ANALYSIS

The IB luminaires will provide easily adjustable amounts of task illuminance on the audience seating area. This will ensure patrons will safely find their way to their seats and be able to read the provided program materials. The warm color temperature and direct distribution will provide detailed facial rendering and add to the calm, almost residential feel sought in this space. The FE luminaires mounted on the suspended panels will enhance the depth and detail of the recessed air plenum and will help reduce the glare from the halogen downlights. The FE luminaires encircling the recital hall on the decorative ledge will throw a gradient of light on the ceiling and create bright surfaces and dark shadows in the details of the alternating recessed gypsum panels. This lighting scheme will result in a professional, intimate space for students and faculty to exhibit their skills developed at Ithaca College.

LIGHTING PLAN - 2ND FLOOR

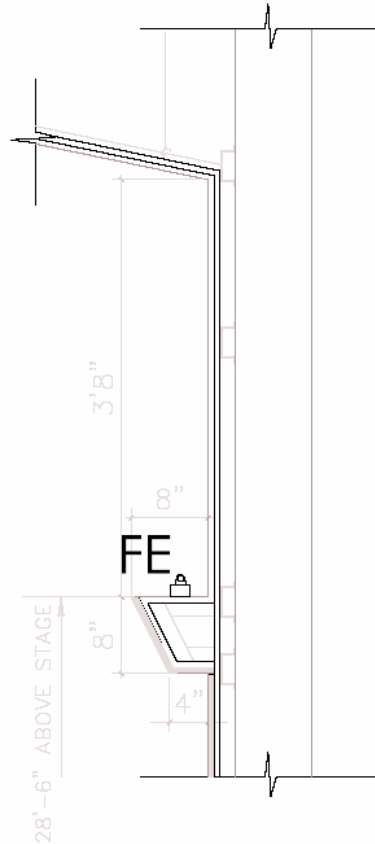


# LIGHTING DETAIL



A) CEILING PLENUM DETAIL

# LIGHTING DETAIL



## B) WALL LEDGE DETAIL

### ASHRAE/IESNA 90.1-1999 Compliance Performing Arts Center Audience Seating (9.3.1.2)

Room Area	3670	sf
Allowed Density	1.8	W/sf
Allowed Wattage	6606	W
Luminaire FE	72	ea
FB Input Watts	33	W
Luminaire IB	27	ea
FB Input Watts	100	W
Actual Wattage	5076	W
Actual Density	1.38	W/sf
% Difference	23.16	% Below 90.1

# ILLUMINANCE CONTOUR

