

Illuminance (horizontal light level)...10 foot-candles (fc)

- same as outdoor archery, drag racing, and pistol/rifle ranges
- 20 times greater than parking lot lighting (0.5 fc)
- 17 times greater than local commercial roadway lighting (0.6 fc)
- 10 times greater than sidewalk lighting along commercial roads (1 fc)

Comparisons:

Golf Course Tee Boxes: 5 fc Golf Course Fairway: 3 fc Golf Course Greens: 5 fc Active Building Entry: 5 fc Car Dealership: 5 to 10 fc Gas Station Pump island: 5 fc

IESNA Illumination Recommendations

Criteria...

Very Important:

- horizontal luminance
- direct glare

Important:

- uniformity
- shadows

Somewhat Important:

- color appearance / color contrast
- light pollution / trespass
- reflected glare
- vertical illuminance

Not Important:

- modeling of faces or objects





IESNA Illumination Recommendations

Lighting the outdoor environment is different from lighting an interior space.

Outdoors, the universal standard for light is the daytime sun and sky.

Outdoor does not have a ceiling.

IESNA Illumination Recommendations

The night outdoor environment presents the following design challenges.....

- Electric lighting cannot light the sky as the sun does. No single fabricated light source is as powerful as the sun.
- At low light levels the eye works differently from the way it works at high daylight light levels.
- People experience different emotions at night. Lighting can affect these emotions, not only when viewing dramatic scenery, sporting events, and outdoor entertainment, but it also affects feelings of personal safety and security such as in a parking lot.
- Outdoor lighting can be seen at great distances, and nighttime visual clutter can be distracting and disturbing.
- There is an expectation (or need) to control the light added to the outdoor environment.







IESNA Illumination Recommendations



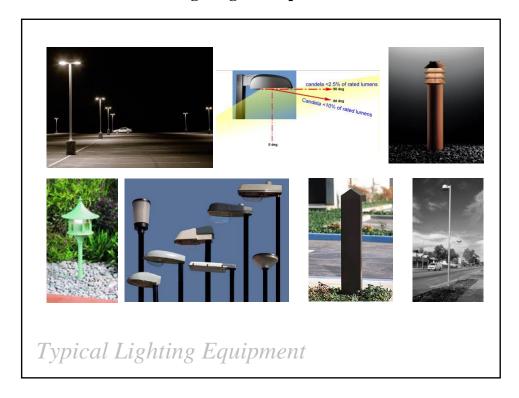


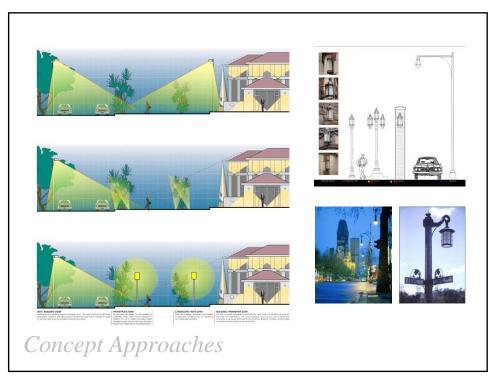
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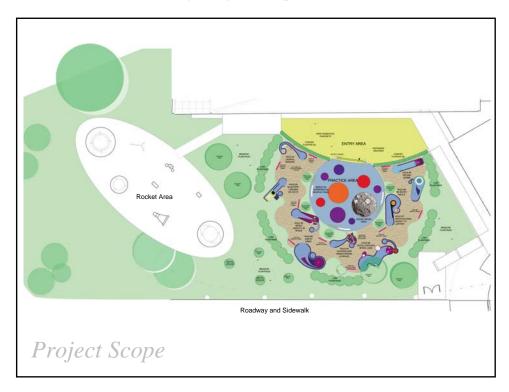


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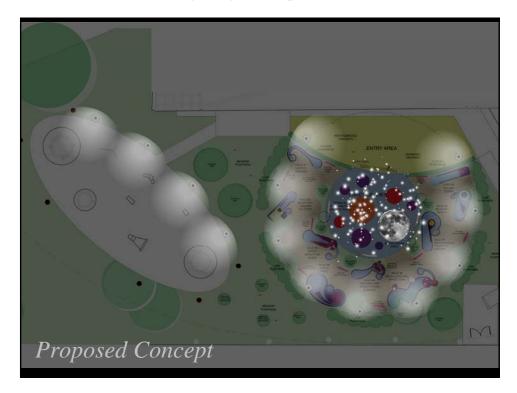


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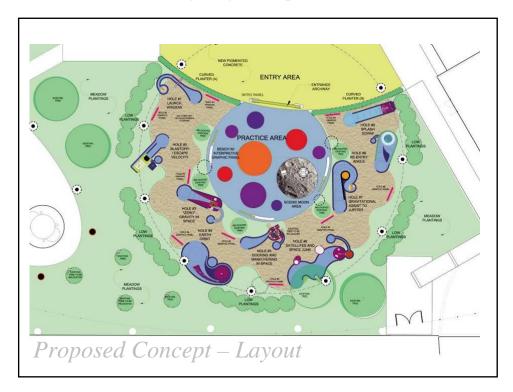


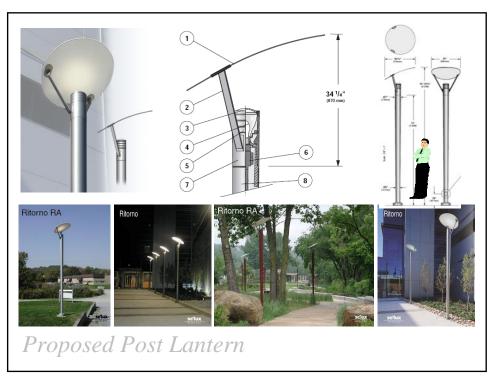


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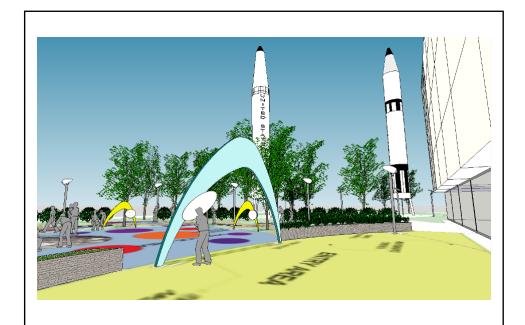








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Proposed Layout Perspective

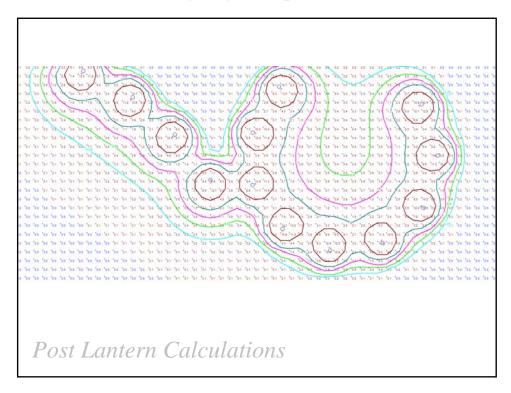


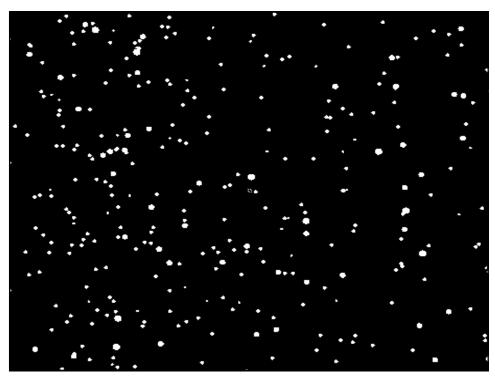
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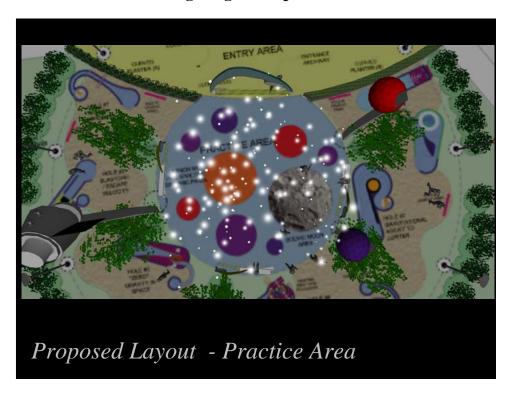


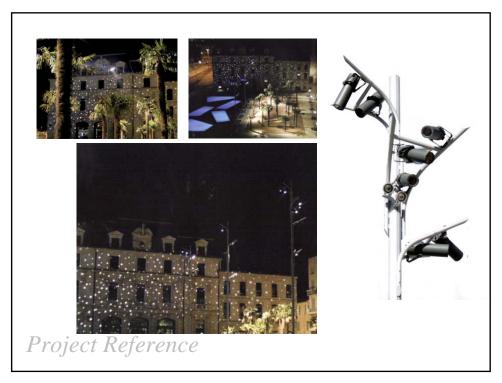
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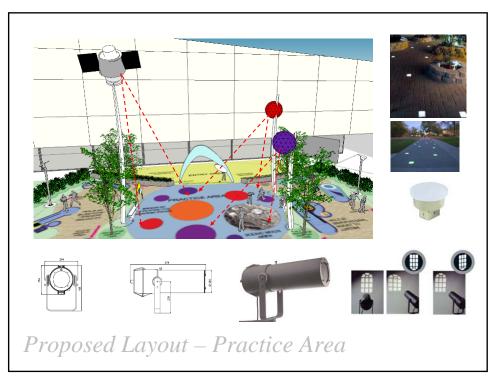
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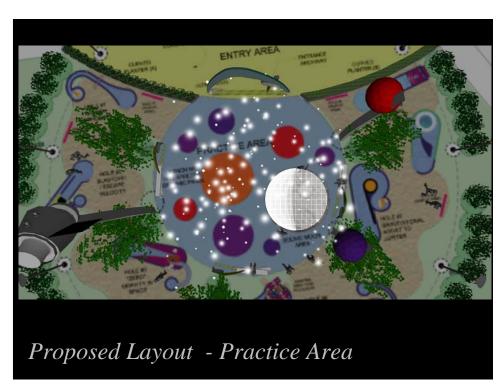
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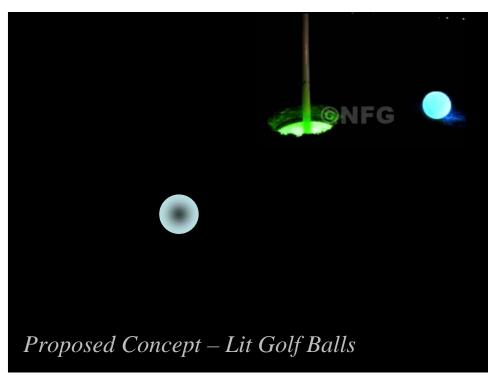


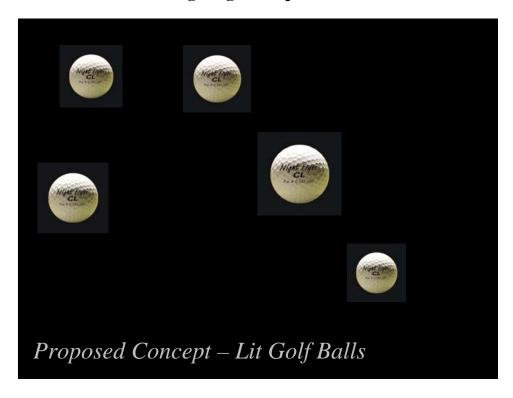
NYHS Rocket Park Lighting Concepts Presentation

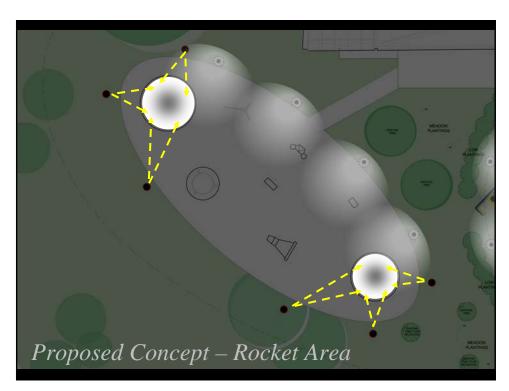




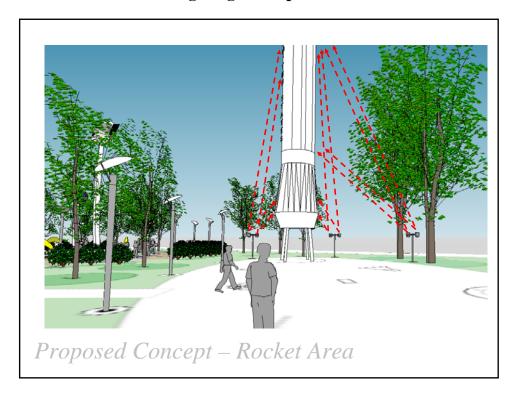


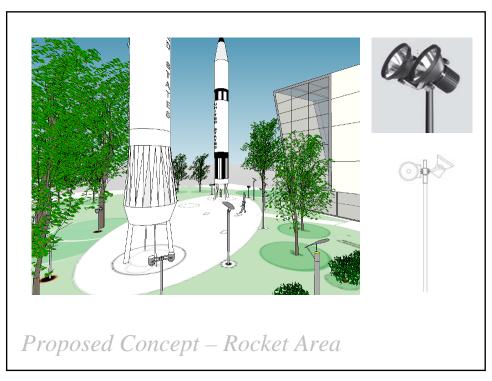






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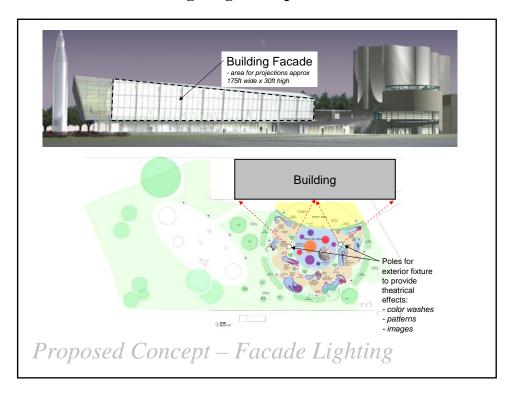




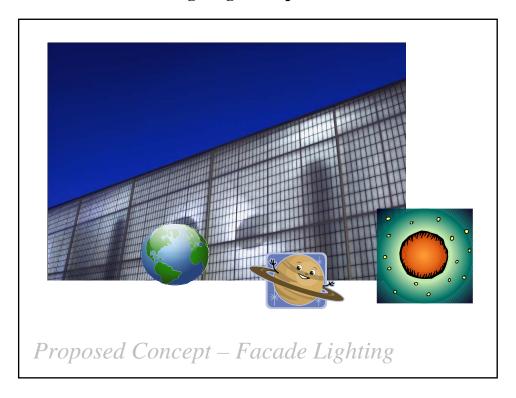




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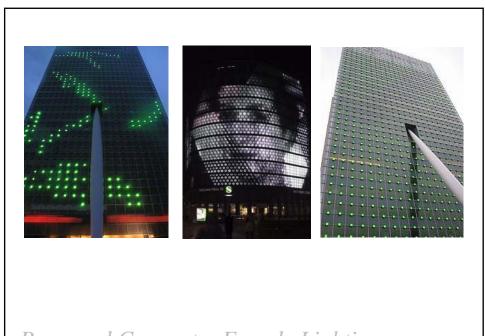




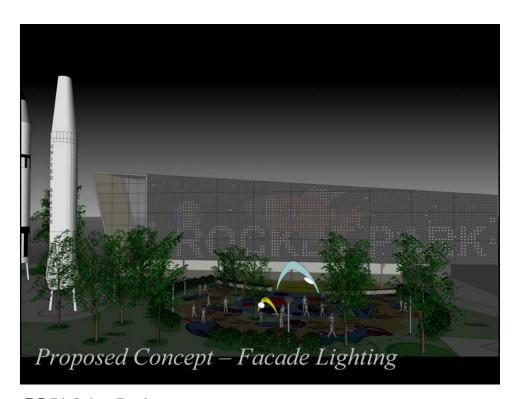




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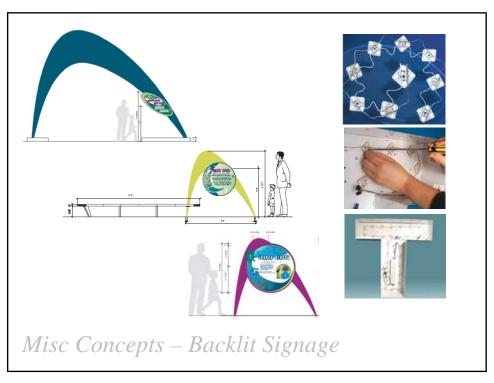


Proposed Concept – Facade Lighting

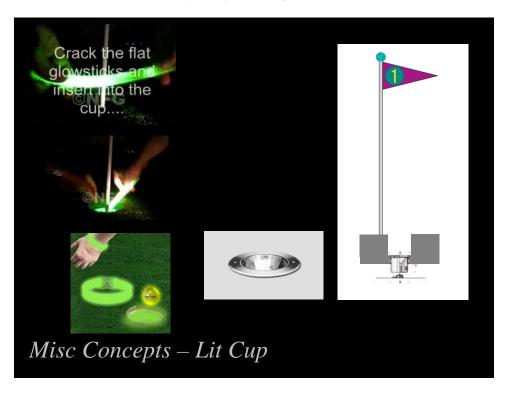


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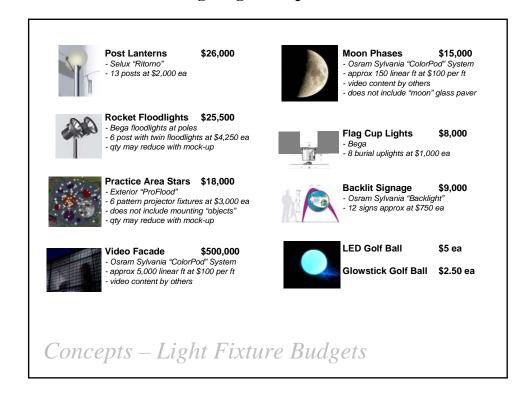


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Thank you!