SITE LIGHTING ANALYSIS

The accompanying Photometric Lighting Plan (Plan) was prepared by a well known Indiana site lighting consultant (Techlite Corporation; see accompanying company brochure). The Plan illustrates the range of light and its intensity from each planned lighting source on the Project site – whether it be from light poles or exterior building lighting fixtures. The Plan concludes that as the result of careful selection of light pole heights and light pole lamp design no light will "bleed off" the sight north of the Project's northern boundary (toward Countrywood), and that little or no light will "bleed off" any other portion of the site.

Three items of particular note regarding the Plan:

1) The Project's site lighting layout meets or exceeds Boone County's zoning requirements for site lighting;

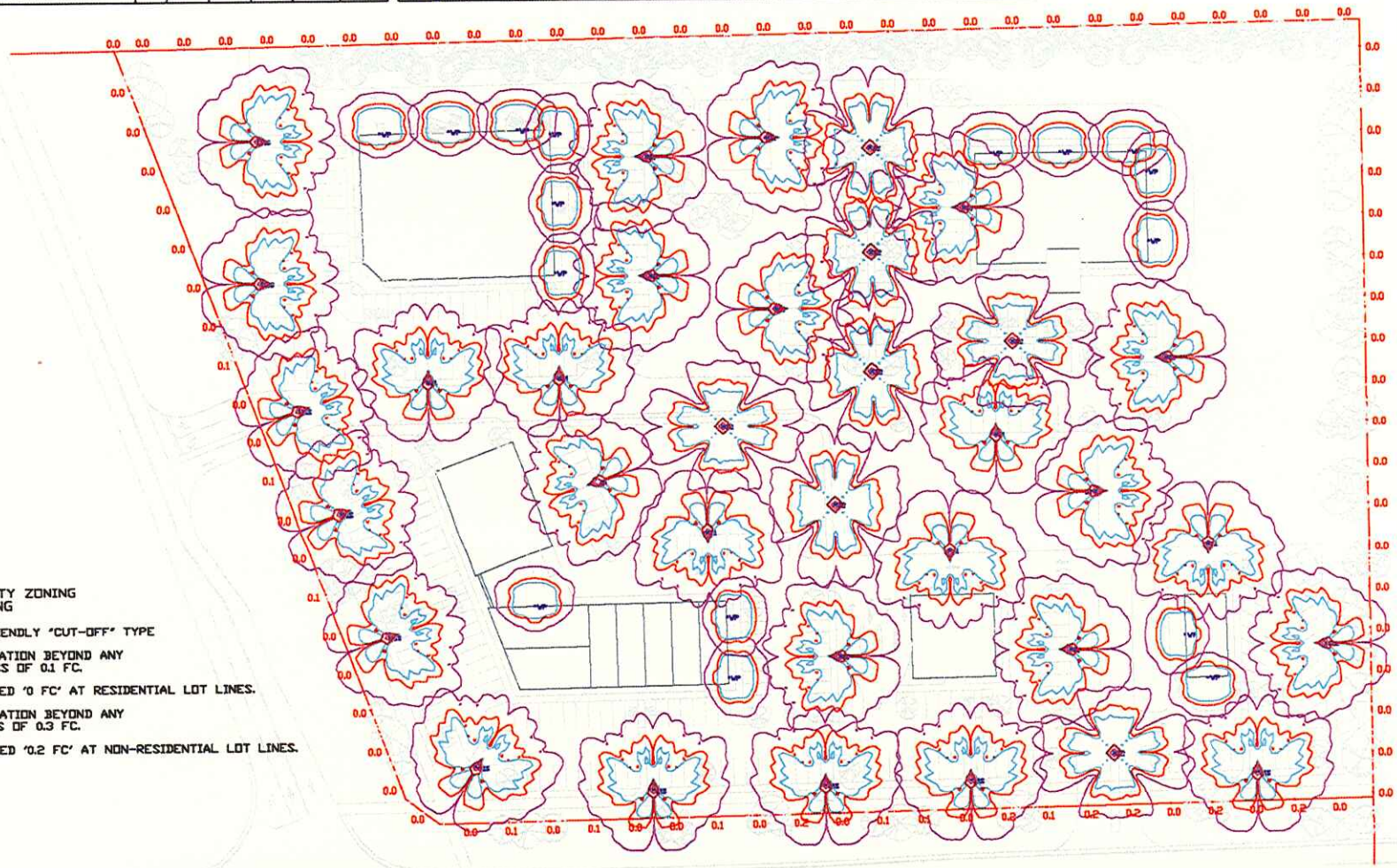
2) The limited amount of off-site "bleeding" from on-site lighting sources as depicted on the Plan meets or is less than the maximum amount permitted by Boone County's zoning requirements for site lighting; and

3) The lighting analysis results depicted on the Plan were obtained assuming that the entire Project site, except for the buildings envisioned in the Project, was a flat plane; that is to say with no buffering – mounding, landscaping or otherwise – being located within the 30' wide buffer areas. As discussed earlier in the Landscape Buffering Schematics section of this submittal, Developer is more than ready and willing to significantly mound and otherwise landscape the buffer areas abutting neighboring property.

SITE LIGHTING ANALYSIS

Numeric Summary							
Label	Description	Units	Avg	Max	Min	Avg/Min	Max/Min
A	GENERAL PARKING AND DRIVES	Fc	0.87	21.5	0.0	N.A.	N.A.
B	BOUNDRY LINE	Fc	0.02	0.2	0.0	N.A.	N.A.

Luminaire Schedule						
Symbol	Qty	Label	Lumens	LLF	Description	Nominal Watts
	16	S1	19000	0.730	BEACON MAGNA LUMINAIRE CAP MOUNTED LAMP TYPE III / 250V PS MH / 14' POLE WITH DECORATIVE BASE / REFER TO PHOTO	250
	11	S2	19000	0.730	BEACON MAGNA LUMINAIRE CAP MOUNTED LAMP TYPE III HOUSE SIDE SHIELD/ 250V PS MH / 14' POLE WITH DECORATIVE BASE / REFER TO PHOTO	250
	7	S3	19000	0.730	BEACON MAGNA LUMINAIRE CAP MOUNTED LAMP TYPE IV / 250V PS MH / 14' POLE WITH DECORATIVE BASE / REFER TO PHOTO	250
	16	WP	2000	0.833	NORTHSTAR AWM9H-24SCF CUT-OFF WALL PACK / 10' AFG	84



MEETS OR EXCEEDS BOONE COUNTY ZONING REQUIREMENTS FOR SITE LIGHTING

LUMINAIRES SHALL BE DARK SKY FRIENDLY 'CUT-OFF' TYPE

LIGHTING SHALL NOT CAUSE ILLUMINATION BEYOND ANY RESIDENTIAL LOT LINE IN EXCESS OF 0.1 FC.

(PROPOSED LIGHTING DESIGN ACHEIVED '0 FC' AT RESIDENTIAL LOT LINES.

LIGHTING SHALL NOT CAUSE ILLUMINATION BEYOND ANY NON-COMMERCIAL LINE IN EXCESS OF 0.3 FC.

(PROPOSED LIGHTING DESIGN ACHEIVED '0.2 FC' AT NON-RESIDENTIAL LOT LINES.

GREENHOUSE DEVELOPMENT CO LLC