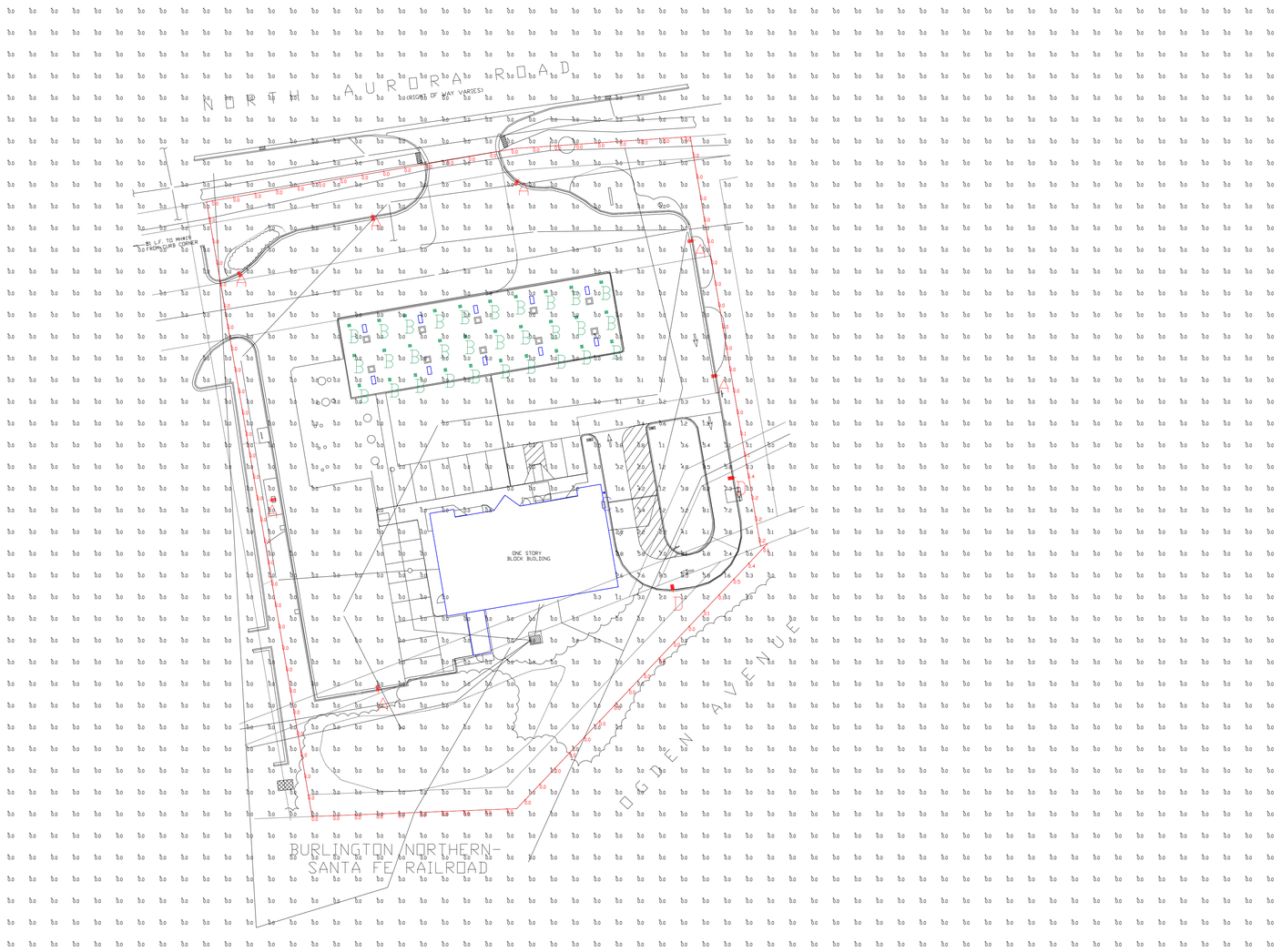

Review of Lighting Plan with regard to Title 6 – Zoning Regulations, Chapter 14 Performance Standards (Naperville Code of Ordinances Supp. No. 96, Created 2025-09-07 14:21:45 (EST))

The proposed plan is to add three fixtures (two area light poles and one building mounted wall light) to the existing facility at 1532 N Aurora Rd, Naperville, IL. All comments included below are specific to those three fixtures in reference and do not include any review of the site as a whole. The existing lights on site are not included on this plan nor are they related to these new fixtures, therefore there is no way to include them in any review or calculations.

--Section 3.2.3 specifies that building lighting should include glare controls or be shielded. The new Type C fixture is a full cutoff wall mounted fixture with an optic to attempt to control light spread.

--Section 3.2.4 specifies that parking area lighting shall include glare controls and be shielded. The two new Type D pole light fixtures include internal louvers for glare control as offered by the manufacturer. Additionally, these are planned to be installed at a 20ft mounting height, which complies with Section 3.2.5.

--Section 3.3 lists IESNA recommended light levels. A convenience store is not specifically listed, so the assumption is made that the "HIGH" category would apply with targets of 3.6fc avg, 0.9fc min, and 4:1 uniformity. In the drive-thru area where the three new fixtures are being added, the plan estimates 4.82fc avg, 0.8fc min, and 6:03 avg/min uniformity ratio, all at a 0.8 LLF as recommended in Section 3.3.4. Initial light levels will be higher. These do not meet the recommendations listed. However, to increase the minimum levels and improve the uniformity would likely require adding more light fixtures, which would likely increase the overall avg levels as well.

--Section 3.3.3 calls for a 2.0fc horizontal max at the property line for nonresidential to nonresidential. The plan (at a 0.8 LLF) estimates 0.5fc, within recommended levels.

The proposed exterior lighting additions depicted on this plan comply with the requirements of City Municipal Code Section 6-14-4:3.

Jordan Spychala
Walsh, Long & Company
630-527-9933

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
ALL CALC POINTS AT GRADE - 10'x10'	Illuminance	Fc	0.08	11.6	0.0	N.A.	N.A.	0
PROPERTY BOUNDARY	Illuminance	Fc	0.02	0.5	0.0	N.A.	N.A.	N.A.
CANOPY	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.	0
DRIVE THRU	Illuminance	Fc	4.82	11.6	0.8	6.03	14.50	0
INSIDE CURB	Illuminance	Fc	0.44	11.6	0.0	N.A.	N.A.	0

For quotes, please contact
WALSH, LONG & CO
quotes@walshlong.com

PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

The IES no longer uses the Cutoff Classification System for LED fixtures. The IES classifies LED fixtures with the BUG rating which refers to the Backlight-Uplight-Glare system. An Uplight of "U0" most closely matches the old Full Cutoff rating.

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLF	Arr. Lum. Lumens	Arr. Watts	BUG Rating
	7	A	Single	EXISTING BY OTHERS	20'	-	-	-	-
	30	B	Single	EXISTING BY OTHERS	15'	-	-	-	-
	1	C	Single	XWS-LED-06L-FTW-50-80CRI	10'	0.800	7031	52	B2-U0-G1
	2	D	Single	MRS-LED-18L-SIL-FT-50-70CRI-IL	20'	0.800	10931	135	B1-U0-G2

Total Project Watts
Total Watts = 322

Dimensions of drawings that have been scaled or converted from PDF files or scanned /submitted images are approximate.

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LIGHTING PROPOSAL LO-162872-3

THORNTONS
1532 N AURORA ROAD
NAPERVILLE, IL

BY:DMK	DATE:7/16/25	REV: 10/13/25	SHEET 1 OF 1

SCALE: 1"=30' 0 30