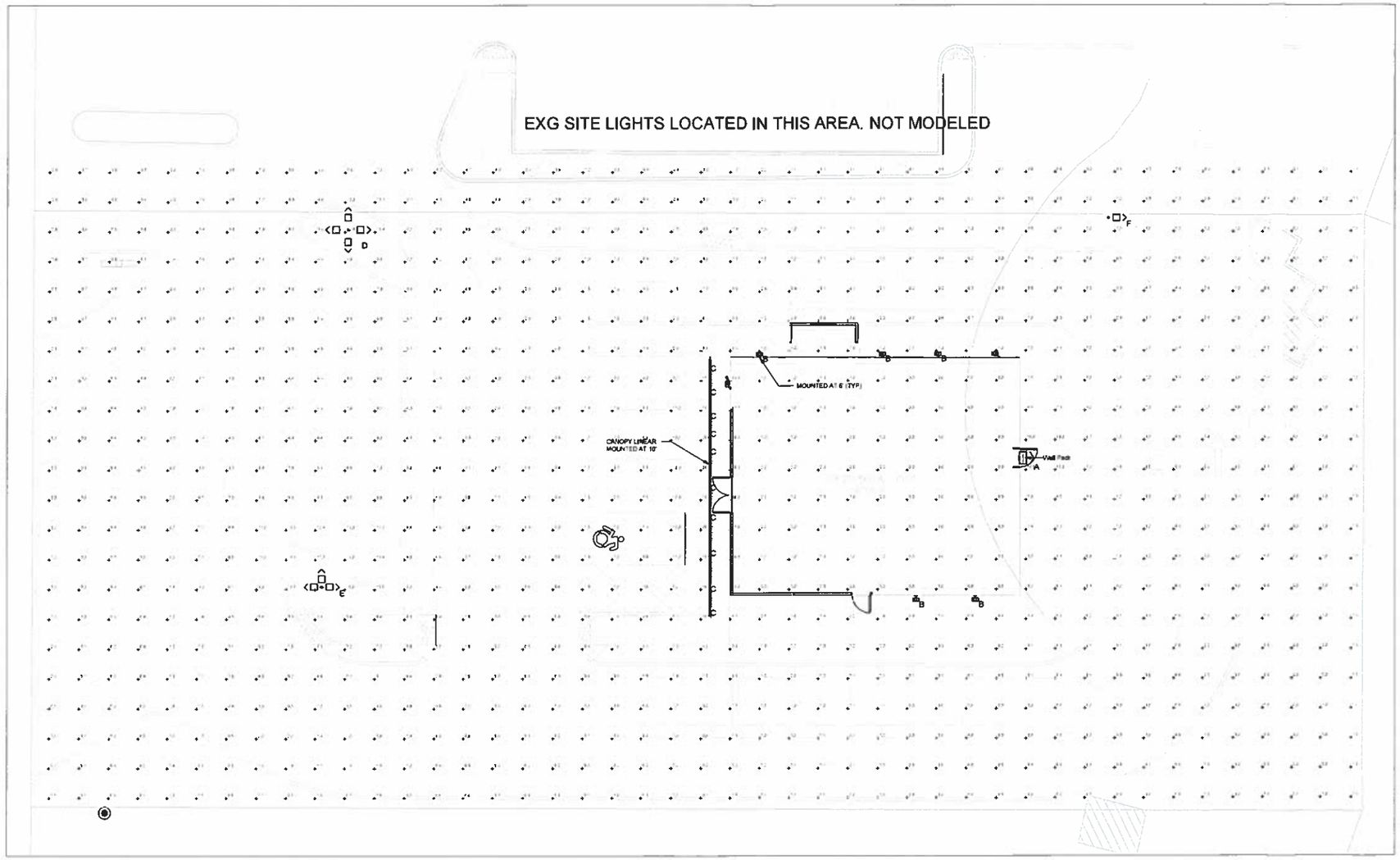

1 E2 PHOTOMETRIC SITE PLAN

SCALE: 1/8" = 1'-0"

Tecton ARCHITECTS

KUEGLER ASSOCIATES consulting engineers

www.kueglerassociates.com

Connecticut Office
St. Dead St., Suite 104, Watertown, CT 06795
Phone: (860) 945-6955

Client/ Contractor

Project

Starbucks

944 South Main St, Cheshire, CT

CALLED NORTH

Seals

Issues / Revisions

No.	Date	Description
1	11/30/2020	PHOTOMETRICS

Drawing Title

PHOTOMETRIC PLAN

Project Manager	??	Project No.	A428-04
Project Engineer	??	Production Leader	??
Project Designer	??	Post Reviewer	??

Drawing Number

E100

LIGHTING DESIGN AND PHOTOMETRIC ANALYSIS NOTES

GENERAL

1. THE LIGHT DESIGN PHILOSOPHY IS TO PROVIDE THE PROPER AMOUNT OF LIGHT IN THE SUBJECT AREAS WITHOUT ANY UNNECESSARY LIGHT IN OTHER AREAS.
2. THE BUILDING MOUNTED LIGHT FIXTURES PER STARBUCKS LIGHTING STANDARDS. IES. MODELS OBTAINED FROM MANUFACTURE
3. LIGHTING DESIGN IS BASED ON THE RECOMMENDATIONS OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) FOR THE DIFFERENT LOCATIONS AND AREAS. IES IS THE PRIMARY LIGHTING AUTHORITY IN THE UNITED STATES. THE IES IS DEDICATED TO PROMOTING THE ART AND SCIENCE OF QUALITY LIGHTING TO ITS MEMBERS ALLIED PROFESSIONAL ORGANIZATIONS, AND THE PUBLIC.
4. LIGHTING IS PROVIDED FOR SECURITY, AND OR TRAFFIC CONDITIONS IN SOME AREAS AND IS DEPENDENT ON SPECIFIC LOCATION ON THE SITE.

SITE AND SURROUNDING AREA DESCRIPTION

AREA TO BE LIGHTED DRIVE ENTRANCE, PARKING AND EXITS, PARKING AND HANDICAP PARKING,

1. SAFETY AND SECURITY OF AREA LIGHTING HAS BEEN CONSIDERED FOR SAFETY AND SECURITY PURPOSE BEYOND NORMAL LEVELS.
2. HIGH TRAFFIC AT MAIN ENTRY /EXIT TO SITE,
3. AT BACK OF LOT LIGHT POLE WITH SINGLE LIGHT ADDED EXIT,

PEOPLE USING AREA: PUBLIC, RETAIL, DRIVE THROUGH,

SURROUNDING AREA TYPE: COMMERCIAL, UTILITY SUB STATION TO RIGHT, RIVER TO REAR.

FIXTURES AND LUMINAIRES

5. POLE MOUNTED FIXTURES ARE FULL CUT-OFF AS DESIGNATED BY IESNA REQUIRES A LUMINAIRE HAVING A LIGHT DISTRIBUTION IN WHICH ZERO CANDELA INTENSITY OCCURS AT OR ABOVE AN ANGLE OF 90° ABOVE NADIR. THESE FIXTURES HAVE FLAT LENSES WITH THE LIGHT ENGINES UP INSIDE THE FIXTURE SO THE LAMPING CANNOT BE SEEN AT DISTANCE AND LIGHT IS DIRECTED DOWN TO WHERE IT IS NEEDED.
6. EACH FIXTURE IS LABEL WATH ITS TYPE AND MOUNTING HEIGHT ABOVE GROUND LEVEL IN FEET.
7. FIXTURES THAT ARE SHOWN ON THE SITE PLAN MAYBE SHOWN LARGER THAN THEIR PHYSICAL SIZE FOR CLARITY. THE ACTUAL SIZE MAYBE SMALLER. SEE FIXTURE CUT SHEETS FOR SPECIFIC DETAILS. THERE SIZES AND OTHER CHARACTERISTICS BASED ON THEIR PART NUMBER.
8. LAMP LUMENS AND FIXTURE WATTS ARE PROVIDE FOR CODE.

SOFTWARE AND REPORT.

9. THE SOFTWARE USED IS VISUAL PROFESSIONAL EDITION AND IS THE LATEST RELEASE. VISUAL IS A COMPREHENSIVE LIGHTING ANALYSIS TOOL DESIGNED FOR DEMANDING INTERIOR AND EXTERIOR APPLICATIONS.
10. THIS PHOTOMETRIC REPORT HAS BEEN GENERATED USING METHODS RECOMMENDED BY THE IESNA. CALCULATIONS ARE BASED ON PHOTOMETRIC DATA PROVIDED BY THE MANUFACTURER AND THE ACCURACY OF THIS PHOTOMETRIC REPORT IS DEPENDENT ON THE ACCURACY OF THE DATA PROVIDED. END-USER ENVIRONMENT AND APPLICATION (INCLUDING, BUT NOT LIMITED TO, VOLTAGE VARIATION AND DIRT ACCUMULATION) CAN CAUSE ACTUAL PHOTOMETRIC PERFORMANCE TO DIFFER FROM THE PERFORMANCE CALCULATED USING THE DATA PROVIDED WHICH IS BEYOND OUR CONTROL.

RESULTS

11. THE NUMERICAL RESULTS SHOWN ARE THE DIRECT LIGHT POWER IN FOOT CANDLES ON THE GROUND FROM FIXTURES SHOWN.
12. ANALYSES RESULTS DO NOT INCLUDE OTHER OFF-SITE LIGHTING SUCH AS STREET LIGHTING.

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes
	A		1	Lithonia Lighting	WST LED P1 30K 1AM MVOLT	WST LED Performance package 3, 3000 K, visual comfort wide MVOLT	LED	1	WST_LED_P2_30K_1AM_MVOLT.ies	3278	1	1	31	100%	TYPE III, VERY SHORT, BUG RATING B1 - U0 - G0		
	B		7	TECH LIGHTING	700OWWNBLED	TECH LIGHTING WINDFALL OUTDOOR WALL		1	WINDFALL OUTDOOR FIXTURE.ies	186	1	1	30	100%			
	C		43	AQN LED INC.	8024-30-XX	12"L X 1"W X 1.8"H, LED STRIP 72 LEDs		1	8024-30-XX.IES	426	1	1	5.84	100%			
	D		9	Lithonia Lighting	DSX1 LED P1 30K T3M MVOLT	DSX1 LED P1 30K T3M MVOLT	LED	1	DSX1_LED_P1_30K_T3M_MVOLT.ies	6279	1	1	216	100%	TYPE III MEDIUM BUG RATING B2 - U0 - G3		
	E		1	Lithonia Lighting	DSX1 LED P1 30K T3M MVOLT	DSX1 LED P1 30K T3M MVOLT	LED	1	DSX1_LED_P1_30K_T3M_MVOLT.ies	6219	1	1	147	100%	TYPE III MEDIUM BUG RATING B2 - U0 - G3		
	F		1	Lithonia Lighting	DSX1 LED P1 30K T3M MVOLT	DSX1 LED P1 30K T3M MVOLT	LED	1	DSX1_LED_P1_30K_T3M_MVOLT.ies	6279	1	1	64	100%	TYPE III MEDIUM BUG RATING B2 - U0 - G2		

Tecton ARCHITECTS

KUEGLER ASSOCIATES
consulting engineers
www.kueglerassociates.com
Connecticut Office
51 Deerfield St. Suite 104, Rocky Hill, CT 06067
Phone (860) 563-6455

Client/ Contractor

Project
Starbucks

944 South Main St, Cheshire, CT

SALEM NORTH

Seals

Issues / Revisions		
No.	Date	Description
1	11/09/2020	PHOTOMETRICS

Drawing Title
PHOTOMETRIC NOTES & SCHEDULES

Project Manager	KWL	Project No.	M20b04
Project Engineer	ERE	Production Leader	
Project Designer	ERE	Peer Reviewer	

Drawing Number
E1