

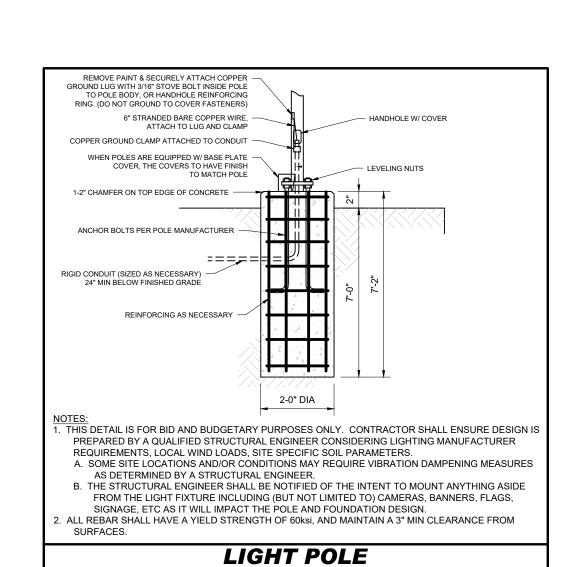
EXISTING 6' OPAQUE-

FENCE MODELED

DUTCH BROS COFFEE

(± 2,522 SF)

to. □ to. ○ to.



2" REVEAL FOUNDATION

## LIGHTING COMPLIANCE CHART SECTION REQUIREMENT COMPLIANCE Q. PRIVATE LIGHTING STANDARDS. ZONING: THE FOLLOWING STANDARDS AND REQUIREMENTS ARE SECTION COMPLIES APPLICABLE WITHIN ALL DISTRICTS AND CIVIC ZONES, 26-6.405 EXCEPT AS OTHERWISE NOTED: 1. AREAS TO BE LIGHTED. EXCEPT IN DISTRICTS CD-3, CD-3.R1, CD-3.R2, CD-3.R3, AND CD-4.R4, AND SD-PUD, ALL PARKING AREAS, PARKING LOTS, PARKING STRUCTURES, AND ACCESS WAYS WITHIN THE LOT SHALL BE LIGHTED. 2.b. A LIGHTING STANDARD SHALL BE OF A HEIGHT AND COMPLIES DESIGN CONSISTENT WITH THE SURROUNDING AREA BUILDINGS BUT IN NO EVENT HIGHER THAN TWENTY FEET (20'). 3.a. ILLUMINATION OF PARKING AREAS, PARKING LOTS, PARKING STRUCTURES, AND ALL PEDESTRIAN WAYS COMPLIES SHALL BE PROVIDED AT AN AVERAGE OF 1.0-2.5 FOOT-CANDLES AND A MINIMUM OF 0.4 FOOT-CANDLES. b. ILLUMINATION AT ALL LOT LINES SHALL MEET THE STANDARD OF TABLE 26-6.405.Q-2 (PRIVATE LIGHTING COMPLIES STANDARDS). TABLE 26-6.405.Q-2 (PRIVATE LIGHTING STANDARDS) MIN/MAX LIGHTING LEVEL AT PROPERTY AND FRONTAGE LINES (IN FOOTCANDLES) CD-4 R4 0 FC @ PROPERTY LINE CD-4.A & CD-4.B, CD-5 ADJACENT TO CD-3, CD-3. R1, CD-R2, CD-R3 OTHERWISE, 1.0-2.0 FC & SD-M 4. LIGHTING FIXTURES. LIGHTING FIXTURES MUST BE FULL COMPLIES CUT OFF OR FULLY SHIELDED AND DIRECTED DOWN.

## **GENERAL LIGHTING NOTES:**

LEVELS ARE SHOWN IN FOOTCANDLES (FC).

- THE GENERAL NOTES, FOUND ON THE NOTES PAGE OF THIS PLAN SET, MUST BE INCLUDED AS PART
  OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE
  ELECTRICAL CONTRACTOR MUST BECOME FAMILIAR WITH, REFER TO AND FULLY COMPLY WITH
- THESE NOTES, IN THEIR ENTIRETY.

  2. THE ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THIS LIGHTING PLAN, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL APPLICABLE AGENCY AND GOVERNMENTAL REGULATIONS. THE LIGHTING PLAN DEPICTS PROPOSED, SUSTAINED
- ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S).

  ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE
  TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, MAINTENANCE, THE
  SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.

  THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A
  HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION
- 4. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES. POWER SYSTEM, CONDUITS, WIRING, CONTROLS, AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ARCHITECT'S, ELECTRICAL ENGINEER'S AND/OR ELECTRICAL CONTRACTOR'S RESPONSIBILITY, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE CONTRACTOR MUST COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY FEDERAL, STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) AND ALL APPLICABLE BUILDING AND
- LOCAL ELECTRICAL CODES.

  5. THE ELECTRICAL CONTRACTOR MUST BRING IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURE(S) TO THE PROFESSIONAL OF RECORD'S ATTENTION, PRIOR TO THE START OF CONSTRUCTION.
- 6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL LIGHTING IS INSTALLED PER THIS LIGHTING PLAN, INCLUDING THE LOCATION, ORIENTATION, SHIELDING, AND/OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS DEPICTED ON THIS PLAN. EXISTING POLES AND FOUNDATIONS ARE NOT TO BE REUSED.
- 7. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND OTHER MAINTENANCE SPECIFIED BY THE MANUFACTURER. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED
- 8. THE LIGHT LOSS FACTORS (LLF) DEPICTED IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BASED ON DATA PROVIDED BY THE MANUFACTURER FOLLOWING IES LM-80-21 TESTING (OR MOST RECENT EDITION). THE LIGHT LEVELS DEPICTED ON THIS PLAN WERE CALCULATED BASED ON THE LLF LISTED IN THE LUMINAIRE SCHEDULE.
- 9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO BOHLER FOR REVIEW AND APPROVAL. SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL PHOTOMETRIC STUDY DEMONSTRATING THAT THE LUMINAIRE(S) IN QUESTION WILL MEET THE DESIGN INTENT OF THIS PLAN. SUBSTITUTION REQUESTS WITHOUT A PHOTOMETRIC STUDY WILL BE
- 10.LIGHT POLE FOUNDATIONS ARE SHOWN ON THE PLAN IN THE INTENDED LOCATION BASED ON THE LIGHTING CALCULATIONS, UNLESS OTHERWISE NOTED. LIGHT SYMBOLS ARE SHOWN LARGER THAN ACTUAL SIZE, HOWEVER FOUNDATION SIZE IS SHOWN AT ACTUAL SIZE.

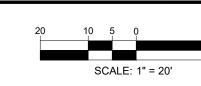
LUMINAIRE SCHEDULE									
LABEL	QTY	MOUNTING HEIGHT	ARRANGEMENT	LUM. LUMENS	LLF	COLOR TEMP.	BUG RATING	DESCRIPTION	DESCRIPTION
D3-S	2	18'-0" AFG	SINGLE	6403	0.900	3000K	B1-U0-G2	LUMEC BY SIGNIFY, METROSCAPE LED POST TOP LUMINAIRE, TYPE 3W WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (MPTR-97W32LED-3K-G3-LE3W-x-HS)	LUMEC BY SIGNIFY, AM6 ROUND ALUMINUM BOTTLENECK POLE, 16' LENGTH (AM6-U-16)
D4	1	18'-0" AFG	SINGLE	9484	0.900	3000K	B2-U0-G2	LUMEC BY SIGNIFY, METROSCAPE LED POST TOP LUMINAIRE, TYPE 4, ZERO UP-LIGHT (MPTR-97W32LED-3K-G3-LE4-x)	LUMEC BY SIGNIFY, AM6 ROUND ALUMINUM BOTTLENECK POLE, 16' LENGTH (AM6-U-16)
D4-S	1	18'-0" AFG	SINGLE	6789	0.900	3000K	B1-U0-G2	LUMEC BY SIGNIFY, METROSCAPE LED POST TOP LUMINAIRE, TYPE 4 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (MPTR-97W32LED-3K-G3-LE4-x-HS)	LUMEC BY SIGNIFY, AM6 ROUND ALUMINUM BOTTLENECK POLE, 16' LENGTH (AM6-U-16)
D5	3	18'-0" AFG	SINGLE	9803	0.900	3000K	B4-U0-G2	LUMEC BY SIGNIFY, METROSCAPE LED POST TOP LUMINAIRE, TYPE 5, ZERO UP-LIGHT (MPTR-97W32LED-3K-G3-LE5-x)	LUMEC BY SIGNIFY, AM6 ROUND ALUMINUM BOTTLENECK POLE, 16' LENGTH (AM6-U-16)
W3*	1	12'-0" AFF*	SINGLE	2718	0.900	3000K	B1-U0-G1	GARDCO BY SIGNIFY, PUREFORM LED WALL SCONCE, TYPE 3, ZERO UP-LIGHT (PWS-P-A01-730-3-x-x)	

CALCULATION SUMMARY								
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	
ALL POINTS	ILLUMINANCE	Fc	0.62	4.2	0.0	N.A.	N.A.	
EAST PROPERTY LINE	ILLUMINANCE	Fc	0.37	1.3	0.0	N.A.	N.A.	
NORTH PROPERTY LINE	ILLUMINANCE	Fc	0.70	1.3	0.1	7.00	13.00	
SOUTH PROPERTY LINE	ILLUMINANCE	Fc	0.05	0.1	0.0	N.A.	N.A.	
WEST PROPERTY LINE (ADJACENT TO RESIDENTIAL)	ILLUMINANCE	Fc	0.00	0.0	0.0	N.A.	N.A.	
WEST PROPERTY LINE (ADJACENT TO UTILITY ROW)	ILLUMINANCE	Fc	0.60	0.8	0.0	N.A.	N.A.	
DRIVE THRU	ILLUMINANCE	Fc	1.43	2.9	0.6	2.38	4.83	
PARKING LOT	ILLUMINANCE	Fc	1.69	4.1	0.7	2.41	5.86	
SIDEWALK	ILLUMINANCE	Fc	1.37	2.2	0.5	2.74	4.40	

\*SEE ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT

 0.0
 0.0
 0.0
 0.0

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



ITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

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DEL//0/01/0	
REVISIONS	

REV	DATE	COMMENT	DRAW	
KEV	DATE	COMMENT	CHECK	
1	10/21/2025	TOWN SITE REVIEW	CC	
'	10/21/2023	COMMENTS	EE	
	I		I	



INDIANA
YOU MUST CALL 811 BEFORE ANY EXCAVATION
WHETHER IT'S ON PRIVATE OR PUBLIC LAND.
1-800-382-5544

## NOT APPROVED FOR CONSTRUCTION

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY
REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION

DOCUMENT UNLESS INDICATED OTHERWISE.

 DOCUMENT UNLESS INDICATED OTHERWISE.

 PROJECT No.:
 OHA250022.00-1A

 DRAWN BY:
 CCP

 CHECKED BY:
 KJB

 DATE:
 08/21/2025

P-CIVL-LLG1

CAD I.D.:

PROJECT:

PRELIMINARY/FINAL

LAND DEVELOPMENT

PLANS



PROPOSED

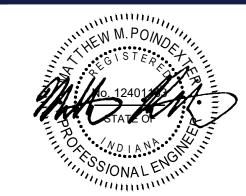
DUTCH BROS COFFEE 8032 CALUMET AVENUE MUNSTER, IN 46321

TOWN OF MUNSTER, LAKE COUNTY STORE NO. IN0703



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www.BohlerEngineering.com



SHEET TITLE:

LIGHTING PLAN

SHEET NUMBER:

L-201

REVISION 1 - 10/21/2025