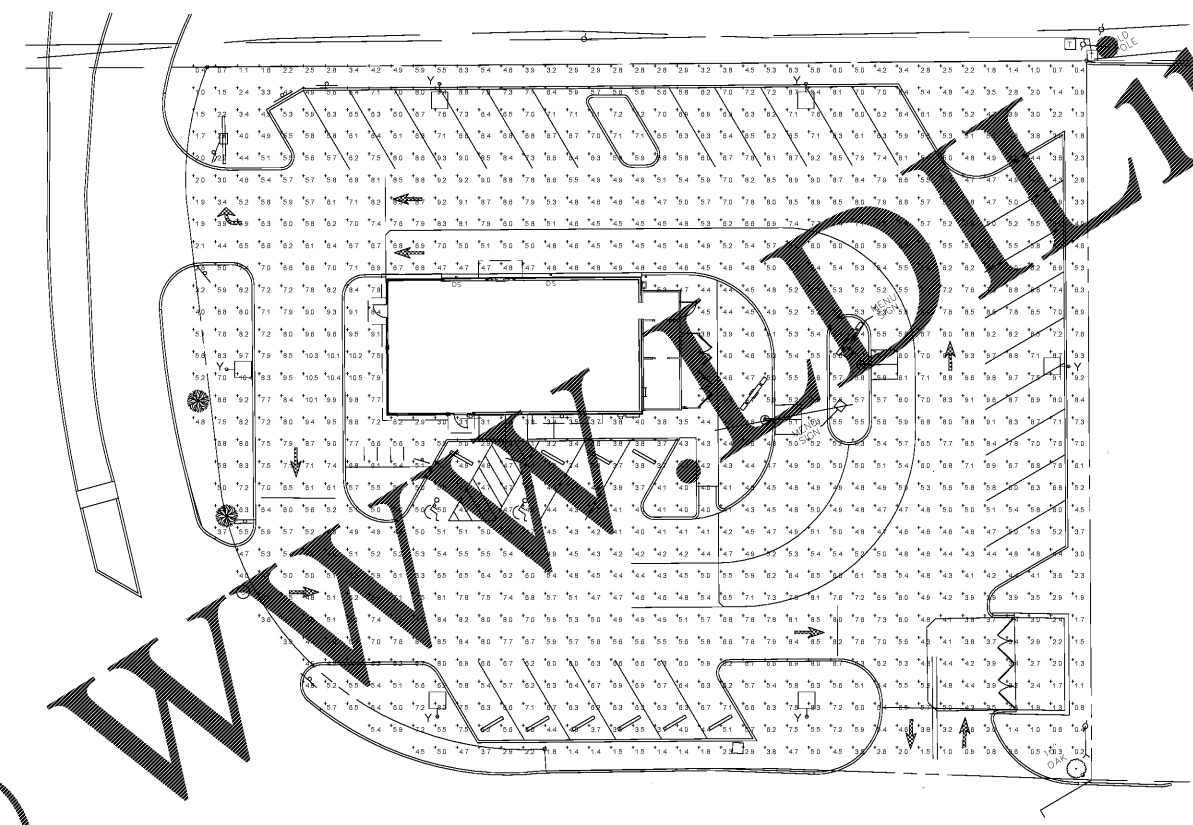
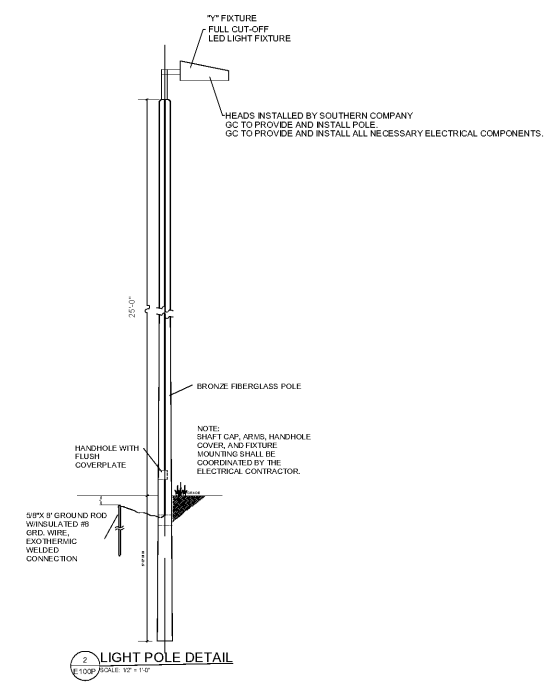


#KNX004  
 KNOXVILLE, TN



02/15/18  
 2815 Broadway NE,  
 Knoxville, Tennessee 37917

Revisions		
#	Date	Description



**UNIFORM DEVELOPMENT CODE**

4.1 OUTDOOR SITE LIGHTING

4.1.3 NEW LIGHTING

4.1.3.1 PRESERVE FIVE METHOD

4.1.3.2 TOTAL SITE LUMEN LIMIT USING HARDSCAPE AREA METHOD (TABLE B)

TABLE B. ALLOWED TOTAL METAL LUMENS PER SITE FOR NON-RESIDENTIAL OUTDOOR LIGHTING HARDSCAPE AREA METHOD

BASE ALLOWANCE:  
 LIGHTING ZONE 3 (L2-3) = 20,886 SF IMPERVIOUS X 5.0 LUMENS PER SF = 104,430 LUMENS  
 DRIVE UP WINDOW (WITHIN 20' HORIZONTAL OF CENTER OF WINDOW) = 5,000 LUMENS  
 TOTAL LUMENS ALLOWED = 109,430 LUMENS

(B) TYPE "Y" FIXTURE AT 21,120 LUMENS PER FIXTURE = 126,720 LUMENS  
 TOTAL PROVIDED LUMENS = 126,720 LUMENS (142,890 LUMENS ALLOWED)

4.1.3.3 LIMITS TO OFF-SITE IMPACTS PER SECTION C

TABLE C-1. MAXIMUM ALLOWABLE BACKLIGHT (B) RATINGS

(1) "Y" FIXTURES 1' TO LESS THAN 2' MOUNTING HEIGHTS FROM PROPERTY LINE IDEALLY ORIENTED IN L2-3 ZONE - BACKLIGHTING REQUIRED

(2) "Y" FIXTURES 0.5' TO LESS THAN 1' MOUNTING HEIGHTS FROM PROPERTY LINE IDEALLY ORIENTED IN L2-3 ZONE - BACKLIGHTING REQUIRED. BY RATING DIVIDED

(3) "Y" FIXTURES 1' TO 2' MOUNTING HEIGHTS FROM PROPERTY LINE IDEALLY ORIENTED IN L2-3 ZONE - BACKLIGHTING REQUIRED. BY RATING DIVIDED

(4) "Y" FIXTURES 2' TO 3' MOUNTING HEIGHTS FROM PROPERTY LINE IDEALLY ORIENTED IN L2-3 ZONE - BACKLIGHTING REQUIRED. BY RATING DIVIDED

(5) "Y" FIXTURES IN L2-3 ZONE - BACKLIGHTING REQUIRED. BY RATING PROVIDED

TABLE C-2. MAXIMUM ALLOWABLE BACKLIGHT (B) RATINGS

L2-3 ZONE - ALLOWED UNIFORM BACKLIGHTING PROVIDED

TABLE C-3. MAXIMUM ALLOWABLE GLARE RATINGS

L2-3 ZONE - ALLOWED GLARE RATING FOR UNIFORM BACKLIGHTING PROVIDED (FIXTURE "Y") OR UNIFORM BACKLIGHTING PROVIDED (FIXTURE "Y")

1 EXAMPLE PHOTOMETRIC SITE PLAN  
 100% 1" = 20'-0"

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	MOUNTING HEIGHT	NUMBER AND TYPE OF LAMPS	MANUFACTURER AND CATALOG #	REMARKS
Y	SINGLE HEAD LED FULL CUT-OFF LIGHT FIXTURE	POLE MOUNTED (28FT) ON DIRECT BURRY FIBERGLASS POLE	28FT POLE HEIGHT	1-310W, 4000K, 200V FURNISHED W/TK.	GALEON (COOPER LIGHTING) 310W LED 50K-AE-4-LED-0-18FT-82-A035	21,120 FIXTURE AND POLE TO BE BRONZE IN COLOR. HOUSE SIDE SHIELDS ARE PROVIDED WITH THIS FIXTURE.
YY	DOUBLE HEAD LED FULL CUT-OFF LIGHT FIXTURE	POLE MOUNTED (28FT) ON DIRECT BURRY FIBERGLASS POLE	28FT POLE HEIGHT	FURNISHED W/TK.	GALEON (COOPER LIGHTING) 315W LED	42,240 HOUSE SIDE SHIELDS ARE PROVIDED WITH THIS FIXTURE.

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