ALPINE LIGHTING PLAN SUBMISSION CHECKLIST

Select Key Requirements – Read the Entire Ordinance Before Creating Your Lighting Plan

- (1) All outdoor lighting shall be fully shielded.
- (2) No luminaire shall create conditions of light trespass. The light source (the bulb or a light-colored lens shall not be visible from any other property. Mounting height or proximity to property lines may cause you to need added shielding.
- (2) Light is measured in lumens. Commercial properties are allowed 100,000 lumens per net acre (about 2.2957 lumens/sq ft.) and residential properties are allowed 25,000 lumens per net acre (about 0.57392 lumens/sq. ft) in any contiguous illuminated area.
- Outdoor lighting includes light fixtures installed indoors behind see-through material that allows the light source to be seen from any other property.

Items to include in Lighting Plan for all Outdoor Lighting:

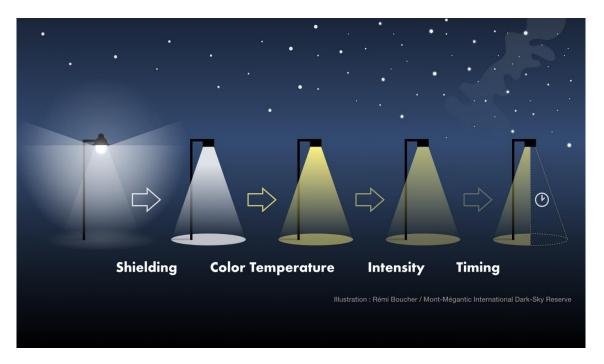
 _(1)	The location and height of all existing and proposed light fixtures. Data for existing fi may be estimated but the source of the numbers assigned must be documented.						
_(2)	config specifi	eturer's specification sheets for each fixture included in the plan. The specific ation and any options to be ordered should be indicated on the spec sheet. If ation sheets cannot be located for an existing fixture, then submit daylight aphs of it and nighttime photographs showing the area the fixture illuminates.					
_(3)		ng elevations with notes where light fixtures are to be installed indoors which may n from the exterior.					
 _ (4)	_	an with specific measurements in feet for the area to be illuminated. A scale notation sufficient.					
_ (5)	A completed Lumen Calculation Workbook (Excel format) to determine net lume square foot. It must include:						
_	(A)	The light fixture catalog descriptions including lamp type					
_	(B)	The Kelvin rating for the selected lamp					
_	(C)	The mounting height for the fixture					
_	(D) detern	The number of fixtures / lamps (use the same unit corresponding to the unit used to nine how many lumens are produced)					
_	(F)	The initial lumens for each entire fixture					
-		The LLF or efficiency for the calculation of Luminaire Lumens (Use 0.95 for LEDs .80 for other types of lamps unless a different percentage is documented in facturer's data).					
	(I)	The total square footage of the area to be illuminated.					

8/12/20 Page 1 of 4

FIGURES AND ILLUSTRATIONS

FIGURE A:

An illustration of best outdoor lighting practices.



- (1) Use shielding to reclaim wasted light and direct it to the area to be lit.
- (2) Lower the correlated color temperature (CCT) from "cool" white light to "warm" white.
- (3) Lower the intensity to provide as much light as needed for the application, but no more.
- (4) Use adaptive controls, e.g., timers, half-night photocells, motion sensors, etc., to limit the hours the light is in use.

8/12/20 Page 2 of 4

FIGURE B:



8/12/20 Page 3 of 4

FIGURE C: Sample Lumen Calculation Sheet (Excel sample available on City website)

	Alpine Sample Lumen Compliance Workbook								
1	Aiplile 3ai								
2									
3	Complete Fixture Ordering Number	Label	Kelvin	Mtg Height	#Lamps	Initial Lumens	LLF**	Total	Other Notes
4	Bantam Chestnut Wall Sconce;BLE - W - CLAR10 400 with Maxlite LED 18057 13W Par 38 in 2700K	A1	2700K	10	11	1,050	0.95	10,972.50	Fully Shielded due to depth of fixture causing bulb to be recessed.
5	Bantam Chestnut Wall Sconce;BLE - W - CLAR10 400 with Maxlite LED 18057 11W Par 30 short neck in 2700K	A2	2700k	13	4	850	0.95	3,230.00	Fully Shielded due to depth of fixture causing bulb to be
6	Bowman 6 Wall Sconce; 700WSBOW-LED 827277	В3	2700k	8	4	1,163	0.95	4,419.40	
7	BK-E26-12-B-25 w/BK-111-BZ shades & L-BK-S14-1-120	SD	2700K	9	80	60	0.95	4,560.00	
8					Total Initial Luminaire Lumens 23,1		23,181.90		
9					Site Allowed Total Initial Lumens 31,074.6		31,074.60		
LO					Is Project within Lumen Limits? YE		YES		
1									
2	II								
13	Allowance Description	Square Feet	Allowed per Sq Ft						
14	Gross square footage of portion of site to be illuminated. See Site Sq Ft Note below.	16560							
15	Square footage of building footprints within part of site to be illuminated.	3024							
16	Calculated Square footage of area to be illuminated	13536	2.2957	31,074.60					
17	Site Allowed Total Initial Lumens								

8/12/20 Page 4 of 4