Date:

Return By:

ROADWAY LIGHTING DESIGN QUESTIONNAIRE

The intention of this questionnaire is to determine Roadway Lighting design preferences. The information provided will be used to develop lighting plans for your agency.

Project Name:					
Project No:					
UPC	No:				
Adver	tisement Date:				
Plan [Design Contact Information:				
Name	:				
	e No.:				
E-Mai	l Address:				
Roadway Lighting Preferences:					
1.	Luminaires wattage & type? (VDOT recommends high pressure sodium type)				
2.	VDOT lighting standard? Type LP-1, LP-2, or LP- 3				
3.	Type of lighting standard:				
	a. Poles & foundations? (breakaway supports)b. Direct buried poles? (type - wood, aluminum, fiberglass, etc.)				
	c. Any special pole or luminaire preferences? (color, style, etc.)				
4.	Any propriety lighting equipment required?				
5.	Location of lighting standards:				
	a. Outside edge of roadway? (behind sidewalk, utility strip)				
	b. Median? (not recommended by VDOT)c. Use of Local Power Company poles?				
6.	Mounting height of luminaire? (min. or max. restrictions)				
7.	Location of luminaires in relation to roadway? (e.g.; along curb or over edge of pavement)				

8.	Type pole arrangement: a. Staggered?					
	b. Opposite?					
	c. Same side of roadway? (Not preferred)					
	d. Median? (Not preferred)					
9.	Luminaire arm length? (min. or max. restrictions)					
10.	Wiring system:					
	a. Conduit & junction boxes?					
	b. Direct buried?					
	c. Installed by Local Power Company?					
11.	Conduit: (if applicable) a. Size?					
	b. Type? (Specs provide contractor the choice of Metal, PVC or Fiberglass)					
	c. Installation? (In accordance with VDOT Standard ECI-1)					
12.	Junction box sizes & type? (VDOT prefers: JB-R1, R2, S1 or S2)					
4.0						
13.	Junction box spacing? (VDOT recommends 250' spacing)					
14.	Electrical service type? SE-7, SE-8, SE-9, and Type A, or Type B					

15. Classification of Roadway and Nighttime Pedestrian Conflict according to IESNA, RP-8 (See Table below and circle selected values)

ROADWAY ILLUMINATION LEVELS				
	me Pedestrian Conflict ification	Minimum Maintained Average Values	Uniformity Ratio	
Road	Pedestrian Conflict Area	FC	Average/Minimum	
Freeway Class A		0.9	3.0	
Freeway Class B		0.6	3.0	
	High	1.4	3.0	
Expressway	Medium	1.2	3.0	
	Low	0.9	3.0	
	High	1.7	3.0	
Major	Medium	1.3	3.0	
	Low	0.9	3.0	
	High	1.2	4.0	
Collector	Medium	0.9	4.0	
	Low	0.6	4.0	
	High	0.9	6.0	
Local	Medium	0.7	6.0	
	Low	0.4	6.0	
This Table is abridged from IESNA, RP-8, Table 2 - Illumination Method - Recommended Values				

- 16. Combination Signal / Luminaire poles? (yes or no if applicable)
- 17. Classification of Intersection and Nighttime Pedestrian Conflict according to IESNA, RP-8 (See Table below and circle selected values)

INTERSECTION ILLUMINATION LEVELS					
	Minim	num Maint	ained		
	Average Illumination				
	Values by Pedestrian				
	Area Classification				
Roadway Functional		(FC)		Uniformity Ratio	
Classification	High	Medium	Low	Average/Minimum	Intersection Name
Major/Major	3.4	2.6	1.8	3	
Major/Collector	2.9	2.2	1.5	3	
Major/Local	2.6	2	1.3	3	
Collector/Collector	2.4	1.8	1.2	4	
Collector/Local	2.1	1.6	1	4	-
Local/Local	1.8	1.4	0.8	6	

This Table is abridged from IESNA, RP-8, Table 9 - Recommended Illumination for the Intersection of Continuously Lighted Urban Streets

18.	If the local power company is installing lighting poles after completion of the project, what is the minimal amount of R/W or easements desired for the installation of these items.
19.	If lighting poles are installed under a separate contract, provide the required foundation bolt circle size.
20.	Is under bridge lighting desired? (Bridge number/location)
21.	Are above ground receptacles required? (Normally used for parking lots, weigh stations, inspection stations, etc.)
Adjad 22.	ent Community: Urban, Suburban, Rural, Business, Residential?
23.	Near-by airports or heliports? (Name & approximately how close)
24.	Are there places along the roadway (known at this time) where lighting poles should be avoided or glare shields used because of houses or businesses?
25.	Requirement for bridge or air navigation lightings?
26.	What will be the posted speed limit on the road to be lighted?
	ng Lighting and Electrical Systems: Available power source: 240/120-volt single-phase? 480/277-volt three-phase? Is there a preference?
28.	Are any major power distribution lines in close proximity of the proposed Lighting Project?
29.	Name and phone number of Local Power Company Representative? (if known)
30.	Is there a minimum spacing required between utility poles?

31.	a. Existirb. Existirc. Existird. Pole toe. Power	ng luminaires moung luminaires watt ype and locations source? (120/24	inting height? age, type, arm le ? 0-volt or 480/277	rngths?	
32.	Other issu	ues to be conside	red in the Lighting	g Plan:	
		 			
Conta	act Name:				
Telep	hone No.:				
Emai	Address:				
Signa	ature.			Date:	