## ROADWAY LIGHTING DESIGNER / REVIEWER CHECKLIST

The following checklist provides both the lighting designer and the TE/L&D Manager guidelines for preparing roadway lighting plans during the different phases of design. The checklist correlates with the Project Development Process discussed in the TEDM Section I – General, Chapter 2.

	Proje	ct Name:
	Proje	ct No: UPC/PPMS No:
	TE/L	&D Manager:
		ing Designer:
	Auve	rtisement Date:
SCC	PING	TEAM MEETING DATE OF MEETING:
		he following actions should take place prior to or during the Scoping Team leeting.
	<b>1</b>	Ensure that adequate space for lighting has been incorporated into the conceptual roadway typical section(s).
	<b>2</b> 2	• • • • • • • • • • • • • • • • • • • •
	<b>3</b>	Identify the limits of the project to be lighted.
	<b>4</b>	,
	□ 5) □ 6)	
	<b>1</b> 7	
	<b>□</b> 8)	design, (traffic signals, signs, etc.)
	<b>□</b> 9)	lighting system.
	<b>1</b>	lighting design and plans.
	<b>1</b>	<ol> <li>Identify items to be installed by the VDOT Contractor and items to be installed by Others [Sec. V, Chapter 3, 3.10.1].</li> </ol>
	□ 1:	2) Prepare project budget estimate.
		ning review completed by:d reviewed:

ELIN	IINAI	RY FIELD INSPECTION TEAM MEETING DATE OF MEETING:
>		following actions should take place prior to or during the Preliminary Field ection Team Meeting.
	1)	Send the Lighting Design Questionnaire to the agency responsible for maintaining lights (District, Residency, Municipality, etc). [Appendix VB-1.]
		Sent To: Date Sent:
	2)	Evaluate the roadway geometry and typical sections to ensure that appropriate right of way and (or) easements have been provided for the light system installation.
	,	Perform lighting warrant analysis, if necessary. [Sec. V, Chapter 3, 3.2] Establish the following lighting design criteria for each roadway and intersection. [Sec. V, Chapter 2, 2.5, Appendix VB-1]
		Roadway:
		Illuminance Criteria
	a.	Roadway & Pedestrian Conflict Area:
	b.	Pavement Classification:
	C.	Maintained Average Illuminance:
	d.	Uniformity Ratio (Ave./Min.):
		Luminance Criteria
	a.	Average luminance:
	b.	Average/Minimum Uniformity Ratio:
	c. d.	Maximum/Minimum Uniformity Ratio:
	u.	Veiling Luminance Natio.
		Intersection:
		Illuminance Criteria
	a.	Functional Classification:
	b.	Average Maintained Illumination:
	C.	Uniformity Ratio (Ave.\Min.):
	5)	Address proprietary equipment requests.
	6)	Update project budget estimate.

UBLIC HEARING TEAM MEETING DATE OF MEETING:			
>	The Mee	following actions should take place prior to or during the Public Hearing Teating.	эm
	1)	Perform a lighting inventory, to identify existing lighting systems to be remov or coordinated with the proposed lighting system (if necessary).	ed
	2)	Develop lighting base plans. [Sec. V, Chapter 4, 4.8.1]	
	3)	Develop conceptual lighting design. Identify typical pole spacing, lumina mounting height, luminaire arm length, type luminaire and wattage.	ire
	4)	Identify potential electrical control center locations.	
	5)	Verify right of way and (or) easements are provided for proposed roadw lighting infrastructure.	ay
	6)	Coordinate lighting design with structure and bridge designer when post- foundations and conduits or any other lighting equipment will be located bridges.	
	7)	Coordinate lighting plans with landscape, utility, median barriers, retaining wa and noise walls, etc.	ılls
	8)	Ensure coordination of all TCD plans.	
	9)	Update project budget estimate.	
Pu	ólic l	Hearing review completed by:eviewed:	

FIELD INSPECTION TEAM MEETING DATE OF MEETING:			
>		e following actions should take place prior to or deting.	during the Field Inspection Team
Lighti	ng F	Plan General Overview	
		Address public hearing comments.  Update conceptual lighting design plans with oplans.	current roadway & utility design
	3)	Ensure that the lighting design criteria establish before starting detail lighting design.	ned at PFI Meeting is acceptable
Lighti	ng F	Plan Coordination Issues	
	1)	Determine local power provider contact person.	
	2)	Coordinate power distribution with other TCD service.	
	3)	Verify the proposed or existing grade is accessisuitable for installation of lighting equipment. [S	
	4)	Evaluate whether sufficient access is provided of lighting equipment around noise walls. [Sec. ]	
	5)		<u> </u>
	6)	Review light pole locations for compatibility wi retaining walls, landscaping, etc.	th noise walls, median barriers,
Const	ruct	tion Cost Estimate	
	1)	Update project budget estimate.	
F.I. review completed by:			

#### **80% PLAN SUBMITTAL**

DATE	OF S	SUBMIS	SION	
	$\mathbf{O}$		SICIA.	

Advance to preliminary lighting design plans for review by Maintaining Jurisdiction, Residency, Regional Traffic and Utility Sections and Central Office. Plans are approximately 80% complete such that the reviewer can provide guidance.

#### 80% DESIGN ELEMENTS

Lighting Plan General Overview [Sec. V, 4.11]  Stand alone Lighting Plans  □ 1) Provide Title Sheet - includes latest design standard and specifications.  □ 2) Provide Location Map.  □ 3) Provide Revision Data Sheet.  □ 4) Provide Survey & Alignment Data Sheets, if applicable. [Sec. V, Chapter 4, 4.8.4]  □ 5) Provide Maintenance of Traffic Sheets.  Requirements for all Lighting plans  □ 1) Use Sheet Cell from the VDOT Cell Libraries.  □ 2) Incorporate design guidance provided in Lighting Questionnaire. [Appendix VB-1]  □ 3) Provide Index of Sheets. [Appendix VA-1]  □ 4) Provide Insertable Sheets.  □ 5) Provide General Notes. [Appendix VB-5]  □ 6) Provide Control Center, Pole & Luminaire details. [Appendix VA-4]  □ 7) Provide Legend Sheet. [Appendix VA-2]  □ 8) Show Project Data on plan sheets, (Project No., Series and Page No., etc.)			
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<ul> <li>□ 4) Provide Insertable Sheets.</li> <li>□ 5) Provide General Notes. [Appendix VB-5]</li> <li>□ 6) Provide Control Center, Pole &amp; Luminaire details. [Appendix VA-4]</li> <li>□ 7) Provide Legend Sheet. [Appendix VA-2]</li> <li>□ 8) Show Project Data on plan sheets, (Project No., Series and Page No., etc.)</li> </ul>		[Appendix VB-1]	
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	,	• • • •	
	<b>9</b> )	Show Scale, North Arrow, Match Lines, etc.	

#### **Lighting Plan Coordination Issues**

#### **Roadway Plans**

- Ensure that poles, conduit and junction boxes are not in conflict with drainage **1** structures, retaining wall tiebacks, noise wall footers, etc. [Sec. V, Chapter 3,
- Evaluate proposed or existing grades for suitable installation of the pole **2**) foundations and trenching of conduit. [Sec. V, Chapter 3, 3.4]
- Reference associated roadway plan sheets in the reference box on lighting plan **3** sheet, (Series No. and Page No.). [Appendix VA-5]

#### **Structure and Bridge Plans**

- Ensure that poles, conduit and junction boxes are not in conflict with bridge **1** wing walls. [Sec. V, Chapter 3, 3.4]
- **2** Discuss method of attaching exposed conduit, junction boxes, under bridge conduit support systems and under bridge luminaires with VDOT Structure and Bridge Section. [Sec. V, Chapter 2, 2.8.5.7], [Sec. V, Chapter 3, 3.10.2]
- **3** Verify light pole foundations, conduit runs and pre-cast junction chamber locations with bridge designer. [Sec. V, Chapter 3, 3.6]

#### **80% PLAN SUBMITTAL (CONTINUED)**

- ☐ 4) Ensure dimensions of pre-cast junction chambers meet NEC requirements.
  [Appendix VB-4]
- □ 5) Reference associated structure and bridge plan sheets in the reference box on lighting plan sheet, (Series No. and Page No.). [Appendix VA-5]

### **Landscaping Plans**

- □ 1) Coordinate lighting design pole placements and luminaire mounting heights with landscaping plans and ensure tree canopy does not block light from roadway or sidewalk. [Sec. V, Chapter 3, 3.11]
- □ 2) Route conduit around proposed tree pits. [Sec. V, Chapter 3, 3.11]

## **Utility Plans**

☐ 1) Ensure poles are not in conflict with underground or overhead utilities.

#### Sign Plans

- □ 1) Coordinate lighting plans with sign plans to show luminaire wattage, phase, and position on the lighted sign structures. [Sec. V, Chapter 3, 3.12]
- □ 2) Coordinate lighting plans with sign plans to provide power to lighted sign structures.
- □ 3) Locate light poles at least 50 feet before or 15 feet behind overhead sign structures and do not obstruct ground-mount sign structures. [Sec. V, Chapter 4, 4.5]
- □ 4) Reference associated sign plan sheets in the reference box on lighting plan sheet, (Series No. and Page No.). [Appendix VA-5]

# **Traffic Signal Plans**

- □ 1) Coordinate lighting plans with the signal plans for combination luminaire signal pole locations to show luminaire wattage, arm length, tilt angle, mounting height, and orientation of the luminaire on the signal pole. [Sec. V, Chapter 4, 4.5.2]
- □ 2) Reference associated traffic signal plan sheets in the reference box on lighting plan sheet, (Series No. and Page No.). [Appendix VA-5]

Verify Lighting Performance Criteria		
		Roadway:
		Illowed a series of Ordinate
	_	Illuminance Criteria
	a. b.	Roadway & Pedestrian Conflict Area:
	D. C.	Pavement Classification:
	d.	Uniformity (Ave./Min.):
	a.	Average luminance:
	a. b.	Average luminance:Average/Minimum Uniformity Ratio:
	C.	Maximum/Minimum Uniformity Ratio:
	d.	Veiling Luminance Ratio:
		Intersection:
	a.	
	a. b.	Average Maintained Illumination:
	C.	Uniformity Ratio (Ave.\Min.):
	0.	
Flecti	rical I	Distribution Plan [Appendix VB-4]
		Drop Calculations [Sec. V, Chapter 4, 4.7]
		Base wire sizing on 3% voltage drop.
	2)	
	3)	
	4)	Base junction box sizes on NEC recommendations.
	<b>5</b> )	Include junction box details with plan sheets at complicated splice points.
Ele	ectric	cal Service Control Center
	1)	Ensure electrical service point and control panel are easily accessible by VDOT electrician and local power company meter reader. [Sec. V, Chapter 3, 3.8]
	2)	Ensure Panel Board detail includes breaker size and interrupting capacity, wire
		size, and contactor size, main breaker size, voltage and number of phases. [Appendix VA-10].
	3)	Identify electric service type on plan sheet and ensure it agrees with Summary
_	σ,	of Quantities pay items.
Liahti	ina S	ystem Layout
9	1)	Update lighting plan base sheets with most current roadway design plan
_	٠,	sheets.
	2)	Ensure plan sheet items match legend and notes are applicable.

Lu	mina	nire Annotations
	1)	Include in the luminaire annotations: luminaire wattage, tilt angle or bracket arm
		length, mounting height or pole length, and electrical circuit, phase, and control
		center. [Sec. V, Chapter 4, 4.8.2.1] [Appendix VA-2]
		ocations
	1)	Ensure light infrastructure is accessible for maintenance. [Sec. V, Chapter 3, 3.4]
	2)	Locate poles within right of way and (or) easements. [Sec. V, Chapter 3,3.4]
	3)	Locate poles outside gore areas or use breakaway bases. [Sec. V, Chapter 3, 3.5]
	4)	Locate poles outside clear zone or use breakaway bases. [Sec. V, Chapter 3, 3.5]
	5)	Identify special pole foundations; (e.g., barrier mount poles, spread footer foundation, etc.) [Sec. V, Chapter 3, 3.6]
	6)	Include in the pole annotations: station and offset with reference baseline, pole number, and lighting standard pay item type. [Sec. V, Chapter 4, 4.8.2.2], [Appendix VA-2], [Appendix VB-2]
Co	ndui	t and Junction Box Locations [Sec. V, Chapter 4, 4.5, 4.6]
	1)	Locate conduit and junction boxes within right of way and (or) easements.
	2)	Include in the conduit annotations: conduit size, wire size and number, and any special type of installation, e.g., "Attached to bridge abutment", "Installed in bridge conduit system". [Sec. V, Chapter 4, 4.8.2.3]
П	3)	Identify jacked pipe, pipe sleeve, or under bridge conduit support systems on
	,	the plan sheets. [Sec. V, Chapter 4, 4.8.2.4]
<b>_</b>	4)	Include in the under bridge conduit support systems the total number of harnesses needed to support the conduit run. Note the bridge type on the plan sheet, (i.e., steel or concrete) with under bridge conduit support system. [Sec. V, Chapter 2, 2.8.5.7]
	5)	Include in the junction box annotations: size, type, and any special means for drainage. Station and offset with baseline reference may be necessary on an individual basis. [Sec. V, Chapter 2, 2.8.5.5]
Un	der l	Bridge Lighting Systems [Appendix VA-7]
	1)	Include in details for under bridge lighting systems the method of attaching conduit, luminaires, and junction boxes to bridge structures, (e.g. wedge anchor
_	0)	or epoxy anchor).
	2)	Include pier cap and abutment detail dimensions for placement of luminaires.
	3) 4)	Include electrical schematic in detail.
	4)	Provide clear details for the location of the junction box used to tie-in the under bridge lighting system to the roadway lighting plan.

# Overhead Sign Lighting [Sec. V, Chapter 4, 4.5.1]

- ☐ 1) Include on plan sheets wattage, circuit, phase, and control center for each sign luminaire.
- □ 2) Locate a junction box at the base of each overhead sign structure.

Constructi	ion Cost Estimate		
<b>1</b> )	1) Show all Standard and Non-Standard Pay Items in the Summary of Quantities sheet. [Sec. V, Chapter 4, 4.9]		
<b>2</b> )	Unit quantities do not need to be shown on Summary of Quantities sheet for this submittal.		
<b>3</b>	Prepare construction cost estimate.		
Submit Pla	an To: (If Applicable)	Contact Person	Date Sent
VDOT, VDOT, VDOT, VDOT,	rality Residency Regional Traffic Engineering District Utilities Section CO – Traffic Engineering (L&D) CO – Traffic Engineering Division Scheduling and Construction		

80% review completed by: Dated reviewed:

<b>QC PLAN S</b>	UBMITTAL DATE OF SUBMISSION:
> Adv	rance the 80% lighting design plans to 100% design completion.
Respond (1) (2) (3) (4) (5) (6) (7) (8)	Municipality (if applicable) VDOT, Residency VDOT, Regional Traffic Engineering VDOT, District Utilities Section VDOT, CO – Traffic Engineering (L&D) VDOT, CO – Traffic Engineering Division VDOT, Scheduling and Construction FHWA
Construct	ability check
□ 1) □ 2)	Ensure clear zone requirements are met. [Sec. V, Chapter 3, 3.5] Verify lighting infrastructure is outside of the deflection clearance of guardrails. [Sec. V, Chapter 3, 3.5]
<ul><li>3)</li><li>4)</li></ul>	Update plans with other design disciplines to ensure that conflicts with drainage, utilities (overhead or underground) and landscaping have not been created with design revisions. [Sec. V, Chapter 3, 3.4] Verify right of way and (or) easements remain sufficient to install lighting infrastructure. [Sec. V, Chapter 3, 3.4]
Plan Shee	ets
□ 1) □ 2)	Finalize General Notes and Plan Notes.  Ensure plan sheet call-outs are consistent with legend and Summary of Quantities pay items, and Transport pay items. [Sec. V, Chapter 4, 4.8]
□ 3) □ 4)	Verify each pay item is clearly identified.  Perform quantity take-offs and verify each pay item in the project is accounted for in the Summary of Quantities.
Plan Deta	ils Sheets
□ 1)	Luminaire details.
□ 2) □ 3)	Iso-footcandle diagrams. Typical pole details.
<b>4</b> )	Special plan details (e.g., median barrier pole foundation details included).
<b>□</b> 5)	Under bridge details.
□ 6) □ 7)	Panel Board details. Insertable sheets.
<b>4</b> 7)	11 13C1 LANIC 31 1CC13.

<b>Summary of Quant</b>	tities / Special Provisions
☐ 2) Cross clustendard Specific [Sec. I, 0]	Summary of Quantities Sheets. [Sec. V, Chapter 4, 4.10] heck measurement and payment for each pay item matches the VDOT ditems or non-standard items as discussed in the ations, Special Provisions and/or Special Provision Copied Notes. Chapter 3, 3.8], [Sec. V, Chapter 2, 2.8] in detail the Special Provisions and Special Provision Copied Notes
with TE	/L&D Manager and Traffic Engineering Division Specifications Section. Chapter 3, 3.8], [Sec. V, Chapter 4, 4.9, 4.10]
<b>Construction Cost</b>	Estimate
☐ 2) Develop	ransport quantities match Summary of Quantities sheet. costs estimates per unit price for non-standard pay items and review L&D Manager.
Plan Set Submitted	d to the state of
□ 2) Location □ 3) Index of □ 4) Revision □ 5) Survey 6 □ 6) Mainten □ 7) General □ 8) Summa □ 9) Plan De □ 10) Insertab □ 11) Legend □ 12) Plan Sh	Data Sheet (Stand alone project) Alignment (Stand alone project) ance of Traffic (Stand alone project) Notes ry of Quantities Sheet tail Sheets le Sheets Sheet eets bridge Lighting Details
Special Provisions	Submitted
☐ 1) Special ☐ 2) Non-Sta	Provisions:
Up-Load Plans to F	Falcon in TIF format. Date complete:
☐ 1) Create F	Plan Index in Excel format.
QA review com Dated reviewed	pleted by:

PRE-ADVERTISEMENT CONFERENCE	DATE OF MEETING:	
Advancing 100% design plans and specifications to construction plan set.		
Respond / Incorporate Review Commen	ts From:	
☐ 1) Municipality (if applicable)		
<ul><li>2) VDOT, Residency</li><li>3) VDOT, Regional Traffic Engine</li></ul>	oring	
☐ 4) VDOT, Neglonal Traine Engine	ening	
☐ 5) VDOT, CO – Traffic Engineerin	g (L&D)	
☐ 6) VDOT, CO – Traffic Engineerin		
☐ 7) VDOT, Scheduling and Constru	uction	
□ 8) FHWA		
Update Plans on Falcon.	Date complete:	
Up-Load Plans to Falcon in TIF format.	Date complete:	
☐ 1) Up-date Plan Index.		
Revise Special Provisions.	Date complete:	
Update TRNS-PORT Cost Estimate.	Date complete:	
-	antities match Summary of Quantities sheet.	
PAC review completed by:		
Dated reviewed:		