

Sample Plan

LIGHTING PLANS ----- NARRATIVE

References:

Design Scene: Chapter 16 - Traffic

Road Design Manual: Chapter 10-6

Lighting Web Site:

www.dot.state.mn.us/trafficeng/lighting/plansheets.html

<http://ihub.metro/design/coordination.html> Traffic-Design Coordination Guidance

General Information:

During the roadway plan development, designers must be aware of the need for a Lighting Plan. This Plan contains fixed source roadway lighting. Fixed source roadway lighting becomes important when the vehicle headlights, even when also supplemented by markings and delineation, no longer provide sufficient driver visibility. The designer will work with the Lighting Office to determine if tower lighting will be needed and, if so, must coordinate and accommodate the location of the towers in the roadway design.

To develop a Lighting Plan, coordination meetings between Design and the Metro Traffic Engineering Section Lighting Unit is required throughout the duration of the project. The number and extent of these meetings will depend on the complexity, length, and duration of the project. In some instances, the Lighting Plan may be a separate plan and not included in the grading plan.

The Designer may need to provide construction sheets or general layout sheets (hard copy or electronic copy) to the Lighting Unit for them to use as a base map to draft their lighting plan.

Lighting plan sheets to be inserted into the final plan should include a list of construction pay items and quantities so the designer can include these items in the Estimated Quantities tabulation.

The Designer should also add any Lighting Standard Plates on to the list of project specific Standard Plates or make a reference to them.

The Lighting Plan sheets should also be included in the plan as shown on the Title Sheet's Index. Page numbers for the Lighting Plan sheets will be SL1 to SL*.

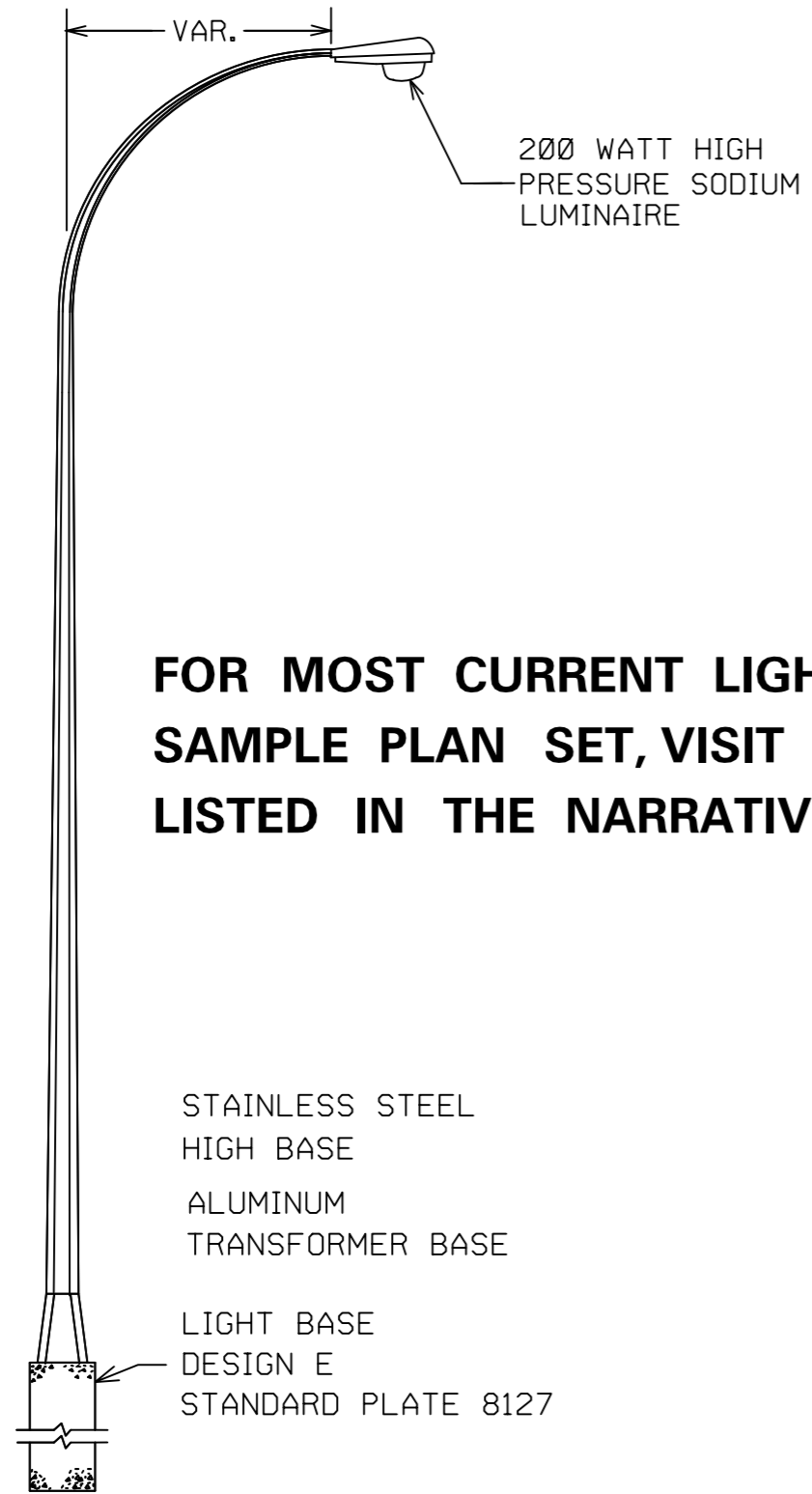
Coordinate with Traffic and Construction the need for any temporary lighting.

Sample Plan

LIGHTING PLANS ----- CHECKLIST

- ___ 1. Items correspond with those in TRNS*PORT
- ___ 2. Tab Letter, Sheet Numbers and correct S.P.'s
- ___ 3. Lighting Engineer's signature

REVISION DATE 04/08/16
 splight.dgn
 26-JAN-2017 09:17
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**FOR MOST CURRENT LIGHTING
 SAMPLE PLAN SET, VISIT THE WEB SITE
 LISTED IN THE NARRATIVE REFERENCES**

COBRA HEAD LUMINAIRE

HUBBELL RLG WITH REGULATOR BALLAST FOR 240 VOLT, CAT. NO. RL-GT-20S38-061-124-F0

CROUSE-HINDS OVM, CONSTANT WATTAGE BALLAST FOR 240 VOLT CAT NO. OVM20SCW2E

GENERAL ELECTRIC M-400R2, AUTO-REGULATOR BALLAST FOR 240 VOLT CAT. NO. M4RR20S0AIGMS2

OR APPROVED EQUAL

LAMPS SHALL BE 200 WATT HIGH PRESSURE SODIUM

LUMINAIRE SHALL HAVE A TYPE II MEDIUM SEMI-CUTTOFF DISTRIBUTION PER 1983 ANSI/IES STANDARDS WITH GLASS REFRACTOR

THE FOLLOWING STANDARD PLATES APPROVED BY THE DEPT. OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

STANDARD PLATES	
PLATE NO.	DESCRIPTION
8127E	LIGHT FOUNDATION - DESIGN E
8140B	ROADWAY LIGHTING SERVICE CABINET

SAMPLE PLAN

TABULATION OF QUANTITIES		SL
ITEM	UNIT	S.P. 0000-00
		QUANTITIES
REMOVE LIGHT STANDARD BASE	EACH	10
SALVAGE LIGHTING UNIT	EACH	10
LIGHTING UNIT TYPE 6-40	EACH	2
LIGHTING UNIT TYPE 9-40	EACH	12
LIGHT BASE DESIGN E	EACH	14
78 mm RIGID STEEL CONDUIT	LIN FT	140
ARMORED CABLE 3 CONDUCTOR NO. 4	LIN FT	2501
SERVICE CABINET SECONDARY TYPE L1	EACH	1
EQUIPMENT PAD	EACH	1

LIGHTING UNIT TYPE 6-40 & 9-40
 (BREAKAWAY)

INTERCHANGE POLE & LUMINAIRE DETAILS

I HEREBY CERTIFY THAT SHEETS THROUGH OF THIS PLAN WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	DATE <u>2/01/14</u>	LIC. NO. <u>00000</u>
	DESIGNER <u>B. TOWER</u>	
SHEET 1 OF 1		LIGHTING PLAN
State Proj. No.	0000-00 (T.H. 00)	Sheet No. SL1 of SL1 Sheets