

STATE OF CALIFORNIA -- DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

The materials and components for this lump sum pay item "LIGHTING AND SIGN ILLMINATION (LOCATION 2)" spans three electrical plan sheets (E-95, E-96 and E-97). The specific materials and components, for this bid item, that must be shown graphically on these three plan sheets are:

1. TRANSFORMER
2. LUMINAIRE
3. PULL BOX
4. CONDUIT
5. CONDUCTOR

The quantity of these materials and components are shown in tabular format on PPM examples: ELECTRICAL SYSTEMS PLAN VIEW SHEET, GENERIC EXAMPLES "A" AND "B"

The name of this sheet (which in this case includes the location number), must be the same as the name of the bid item.

When locations are part of the bid item name it can be handled in one of two ways on the quantity table. See ELECTRICAL SYSTEMS QUANTITIES SHEET, GENERIC EXAMPLES "A" AND "B".

**ELECTRICAL SYSTEMS PLAN VIEW SHEET,
 GENERIC EXAMPLE "A"**

**LIGHTING AND SIGN ILLUMINATION
 (LOCATION 2)**

NO SCALE

E-97

ELECTRICAL SYSTEMS PLAN VIEW, GENERIC EXAMPLE "A", RELEASED 11/8/2013

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NOTE:

Most electrical systems bid items are paid for by lump sum. In these cases, the name of the electrical plan sheet must be the same as the name of the bid item.

There are several types of electrical work that have bid items, either based on each location of that specific type of work or a single bid item that encompasses all that type of work, regardless of the number of locations.

Using the bid item for "Lighting and Sign Illumination" as an example, the table on this example sheet can be used for the single bid item "Lighting and Sign Illumination" or the bid item for each location (I.E. "Lighting and Sign Illumination (Location 1), etc.). For a single table, the locations are identified in a column and not included in the name of the table.

LIGHTING AND SIGN ILLUMINATION

SHEET No.	LOCATION	TRANSFORMER	LUMINAIRE		PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
			EA	LF				
E-93	1		1	3				
E-94			1	1				
E-95	2					200	500	
E-96					5	1000	4000	
E-97		1			1	400	1600	
E-98	3		1	2		200	400	
E-99								
E-100	4		2	5		500	1000	
E-101	5		2	5		700	1400	
E-102	6		1	2		400	800	
E-103	7		1	3		300	600	

ITEMS SHOWN IN THIS TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

The name of the single lump sum bid item will include the name of the table, and will include the location if those bid items listing the locations are used. But the locations can be shown as a column.

A single table is simple and easy to use for a common bid item (even if there are multiple locations) when the materials and components are the same for all locations.

Do not show a total at the bottom of the quantity table for lump sum items.

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ELECTRICAL SYSTEMS QUANTITIES SHEET, GENERIC EXAMPLE "A" (OPTION 1)

CALTRANS PREFERRED OPTION

ELECTRICAL QUANTITIES

E-120

ELECTRICAL SYSTEMS QUANTITIES, GENERIC EXAMPLE "A", RELEASED 11/8/2013

STATE OF CALIFORNIA -- DEPARTMENT OF TRANSPORTATION



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NOTE:
ITEMS SHOWN IN TABLE(S) ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

If there is more than one table on the quantity sheet, place this note in the upper left corner. DO NOT place this note for each table.

All quantity type tables should be located on the electrical quantities sheet(s). Legends, abbreviations and symbols should be identified on legend sheets.

For small projects where there is only a couple electrical plan sheets, the individual quantity tables can be placed on the corresponding electrical plan sheet, but only if there is room and it does not crowd or eliminate the design information.

When using the option of having a separate table for each electrical plan sheet, the complete name, including the 'Location,' must be the title of the table.

LIGHTING AND SIGN ILLUMINATION (LOCATION 1)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-93		1	3			
E-94		1	1			

LIGHTING AND SIGN ILLUMINATION (LOCATION 2)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-95					200	500
E-96			5		1000	4000
E-97	1		1		400	1600

LIGHTING AND SIGN ILLUMINATION (LOCATION 3)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-98		1	2		200	400
E-99						

LIGHTING AND SIGN ILLUMINATION (LOCATION 4)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-100		2	5	1	500	1000

LIGHTING AND SIGN ILLUMINATION (LOCATION 5)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-101		2	5	1	700	1400

LIGHTING AND SIGN ILLUMINATION (LOCATION 6)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-102		1	2		400	800

LIGHTING AND SIGN ILLUMINATION (LOCATION 7)

SHEET No.	TRANSFORMER	LUMINAIRE	PB	TYPE 1-B POLE (PEU)	CONDUIT	CONDUCTOR
E-103		1	3		300	600

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The first 5 locations are standard bid items.

NOTE:
Standard bid items for "Lighting and Sign Illumination" currently only go up to 5 locations. If the designer chooses to use more than 5 locations, each location above location 5 will be a non-standard (one time) bid item. But showing the segregation of work (materials and components) for non-standard bid items must be shown as if it were a standard bid item.

Locations 6 and 7 are not standard bid items, they are non-standard (one time) bid items. Since the components for each bid item is the same for all 7 locations, the same standard specification used for the 1st 5 locations is also to be used for locations 6 and 7.

ELECTRICAL SYSTEMS QUANTITIES SHEET, GENERIC EXAMPLE "B" (OPTION 2)

ELECTRICAL QUANTITIES

E-121