

STREETLIGHT CIRCUIT CAPACITY CALCULATIONS: NEW SERVICE PEDESTAL "3" TS/SL**			
SERVICE PEDESTAL LOCATION: CLARK AVE (NORTH SIDE) - EAST OF THIRD ST			
PERSON WHO DID THE CALCULATIONS:		RWC	
CONSULTING ENGINEERING FIRM:		KIMLEY-HORN AND ASSOCIATES, INC	
CAPACITY CALCULATIONS: CIRCUIT "A"			
1	NEW CIRCUIT CAPACITY	60	AMPS
2	AVAILABLE CAPACITY - MAX CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	*EXISTING CIRCUIT LOAD REDUCTION (ENTER 0 IF NEW)	0	AMPS
5	TOTAL EXISTING CIRCUIT LOAD (3 MINUS 4) (ENTER 0 IF NEW)	0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			
6	4 NUMBER OF 250 WATT ST LTS @ 1.5 AMPS/EA	6	AMPS
7	TOTAL CIRCUIT PROPOSED NEW LOAD (5+6)	6	AMPS
8	REMAINING AVAILABLE LOAD (2 MINUS 7)	42	AMPS
CAPACITY CALCULATIONS: CIRCUIT "B"			
9	NEW CIRCUIT CAPACITY	60	AMPS
10	AVAILABLE CAPACITY - MAX CONTINUOUS CURRENT DRAW (80%)	48	AMPS
11	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
12	*EXISTING CIRCUIT LOAD REDUCTION (ENTER 0 IF NEW)	0	AMPS
13	TOTAL EXISTING CIRCUIT LOAD (11 MINUS 12) (ENTER 0 IF NEW)	0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			
14	0 NUMBER OF 250 WATT ST LTS @ 1.5 AMPS/EA	0	AMPS
15	TOTAL CIRCUIT PROPOSED NEW LOAD (13+14)	0	AMPS
16	REMAINING AVAILABLE LOAD (10 MINUS 15)	48	AMPS

* DUE TO REMOVAL OF EXISTING LUMINAIRES FROM EXISTING CIRCUIT.
**SEE TS SHEETS FOR INSTALLATION DETAILS.

STREETLIGHT CIRCUIT CAPACITY CALCULATIONS: NEW SERVICE PEDESTAL "5" TS/SL**			
SERVICE PEDESTAL LOCATION: BONNEVILLE AVE (SOUTH SIDE) - WEST OF THRID ST			
PERSON WHO DID THE CALCULATIONS:		RWC	
CONSULTING ENGINEERING FIRM:		KIMLEY-HORN AND ASSOCIATES, INC	
CAPACITY CALCULATIONS: CIRCUIT "A"			
1	NEW CIRCUIT CAPACITY	60	AMPS
2	AVAILABLE CAPACITY - MAX CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	*EXISTING CIRCUIT LOAD REDUCTION (ENTER 0 IF NEW)	0	AMPS
5	TOTAL EXISTING CIRCUIT LOAD (3 MINUS 4) (ENTER 0 IF NEW)	0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			
6	0 NUMBER OF 250 WATT ST LTS @ 1.5 AMPS/EA	0	AMPS
7	TOTAL CIRCUIT PROPOSED NEW LOAD (5+6)	0	AMPS
8	REMAINING AVAILABLE LOAD (2 MINUS 7)	48	AMPS
CAPACITY CALCULATIONS: CIRCUIT "B"			
9	NEW CIRCUIT CAPACITY	60	AMPS
10	AVAILABLE CAPACITY - MAX CONTINUOUS CURRENT DRAW (80%)	48	AMPS
11	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
12	*EXISTING CIRCUIT LOAD REDUCTION (ENTER 0 IF NEW)	0	AMPS
13	TOTAL EXISTING CIRCUIT LOAD (11 MINUS 12) (ENTER 0 IF NEW)	0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			
14	0 NUMBER OF 250 WATT ST LTS @ 1.5 AMPS/EA	0	AMPS
15	TOTAL CIRCUIT PROPOSED NEW LOAD (13+14)	0	AMPS
16	REMAINING AVAILABLE LOAD (10 MINUS 15)	48	AMPS

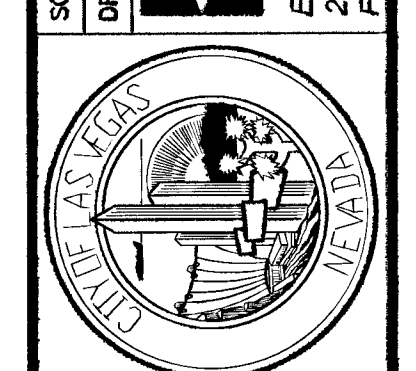
* DUE TO REMOVAL OF EXISTING LUMINAIRES FROM EXISTING CIRCUIT.
**SEE TS SHEETS FOR INSTALLATION DETAILS.

STREETLIGHT CIRCUIT CAPACITY CALCULATIONS: NEW SERVICE PEDESTAL "4" TS/SL/FB**			
SERVICE PEDESTAL LOCATION: BONNEVILLE AVE (SOUTH SIDE) - EAST OF BRT STATION			
PERSON WHO DID THE CALCULATIONS:		RWC	
CONSULTING ENGINEERING FIRM:		KIMLEY-HORN AND ASSOCIATES, INC	
CAPACITY CALCULATIONS: CIRCUIT "A"			
1	NEW CIRCUIT CAPACITY	60	AMPS
2	AVAILABLE CAPACITY - MAX CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	*EXISTING CIRCUIT LOAD REDUCTION (ENTER 0 IF NEW)	0	AMPS
5	TOTAL EXISTING CIRCUIT LOAD (3 MINUS 4) (ENTER 0 IF NEW)	0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			
6	0 NUMBER OF 250 WATT ST LTS @ 1.5 AMPS/EA	0	AMPS
7	TOTAL CIRCUIT PROPOSED NEW LOAD (5+6)	0	AMPS
8	REMAINING AVAILABLE LOAD (2 MINUS 7)	48	AMPS
CAPACITY CALCULATIONS: CIRCUIT "B"			
9	NEW CIRCUIT CAPACITY	60	AMPS
10	AVAILABLE CAPACITY - MAX CONTINUOUS CURRENT DRAW (80%)	48	AMPS
11	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
12	*EXISTING CIRCUIT LOAD REDUCTION (ENTER 0 IF NEW)	0	AMPS
13	TOTAL EXISTING CIRCUIT LOAD (11 MINUS 12) (ENTER 0 IF NEW)	0	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT			
14	0 NUMBER OF 250 WATT ST LTS @ 1.5 AMPS/EA	0	AMPS
15	TOTAL CIRCUIT PROPOSED NEW LOAD (13+14)	0	AMPS
16	REMAINING AVAILABLE LOAD (10 MINUS 15)	48	AMPS

* DUE TO REMOVAL OF EXISTING LUMINAIRES FROM EXISTING CIRCUIT.
**SEE TS SHEETS FOR INSTALLATION DETAILS.

REVISIONS	DATE
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SCALE (H): N/A
SCALE (V): N/A
DATE: FEBRUARY 2010
DESIGNED BY: NSW
CHECKED BY: RC/RFC
DRAWN BY: NSW
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DEPARTMENT OF PUBLIC WORKS
PROJECT: BONNEVILLE/CLARK ONEWAY COUPLLET PHASE 1 IMPROVEMENT PLANS

SHEET: STREET LIGHT CIRCUIT CAPACITY CALCULATIONS

PROFESSIONAL ENGINEER
RANDY W. CARROLL
Exp. 12/31/10
CIVIL
No. 16131
STATE OF NEVADA
107V5201



BID# 09.1730.37 REV 3

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Jun 24, 2010 - 10:20am - USER: peter.mehner
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