

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

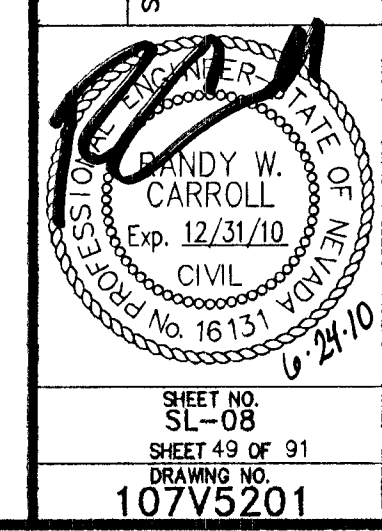
\* DUE TO REMOVAL OF EXISTING LUMINAIRES FROM EXISTING CIRCUIT.  
\*\*SEE TS SHEETS FOR INSTALLATION DETAILS.

TAND, INC.  
AS-BUILT

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know what's below  
Call before you dig 1-702-227-2929

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Call Before You Overhead  
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DATE: DANIEL MEYER  
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DEPARTMENT OF PUBLIC WORKS  
PROJECT: BONNEVILLE/CLARK ONEWAY COUPLER PHASE 1 IMPROVEMENT PLANS  
SHEET: STREET LIGHT CIRCUIT CAPACITY CALCULATIONS

DATE: FEBRUARY 2010  
CHECKED BY: RC/RF  
DESIGNED BY: NSW  
DRAWN BY: NSW  
SCALE (H): N/A  
SCALE (V): N/A  
DATE: FEBRUARY 2010  
CHECKED BY: RC/RF  
DESIGNED BY: NSW  
DRAWN BY: NSW

REVISIONS  
SHEET REPLACEMENT

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