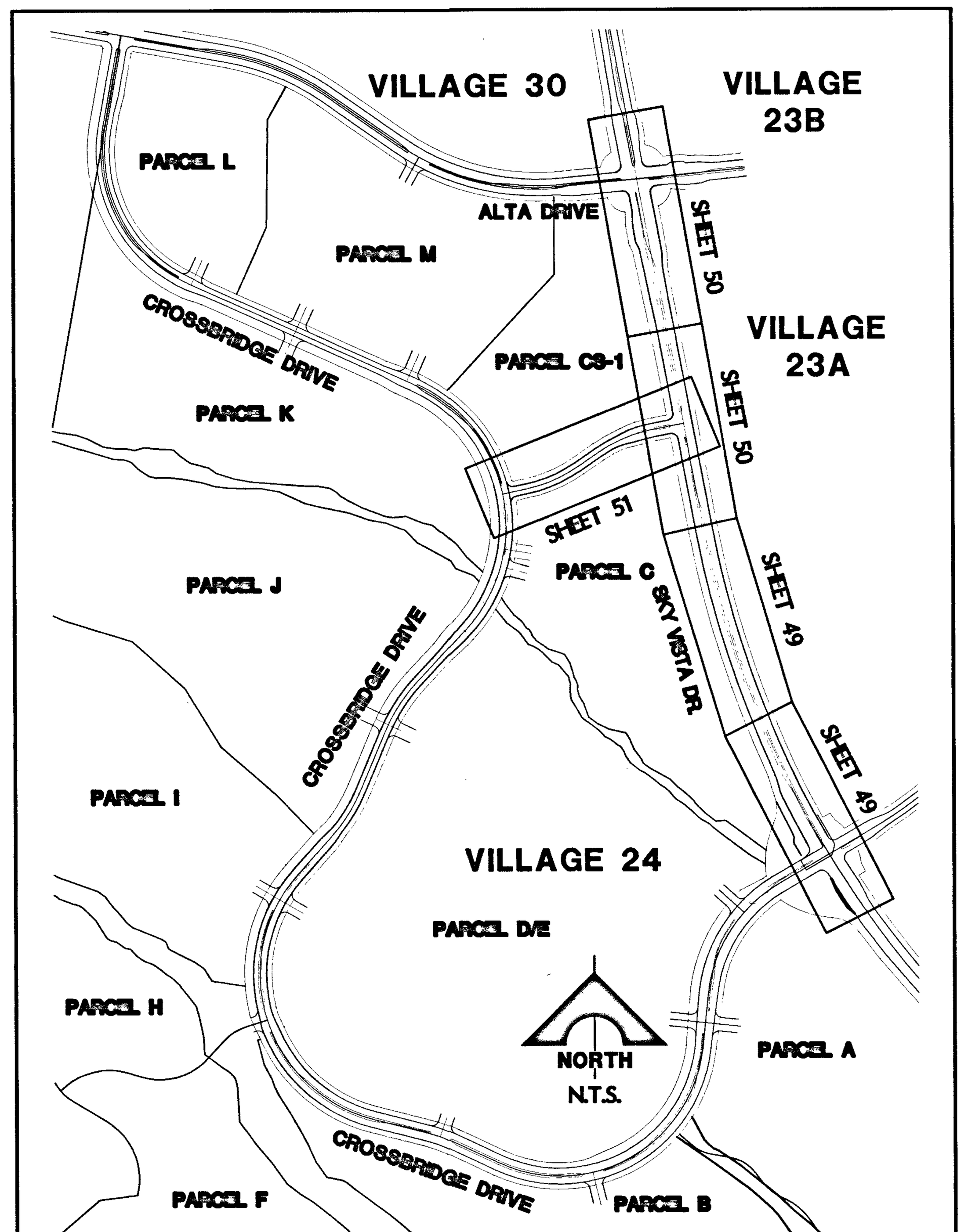


PROJECT LOCATION/SHEET INDEX MAP

NOTE

THIS SET OF DRAWINGS IS BASED UPON NAVD 88 DATUM. PREVIOUS DRAWINGS MAY BE BASED ON OTHER DATUM. CARE SHOULD BE OBSERVED WHEN UTILIZING THIS SET OF DRAWINGS

BASIS OF BEARINGS

SOUTH 89°47'23" EAST, BEING THE BEARING OF THE NORTH LINE OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 118, PAGE 100 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

BM #	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. D368	U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.	3246.63 (FEET)	989.574 (METERS)

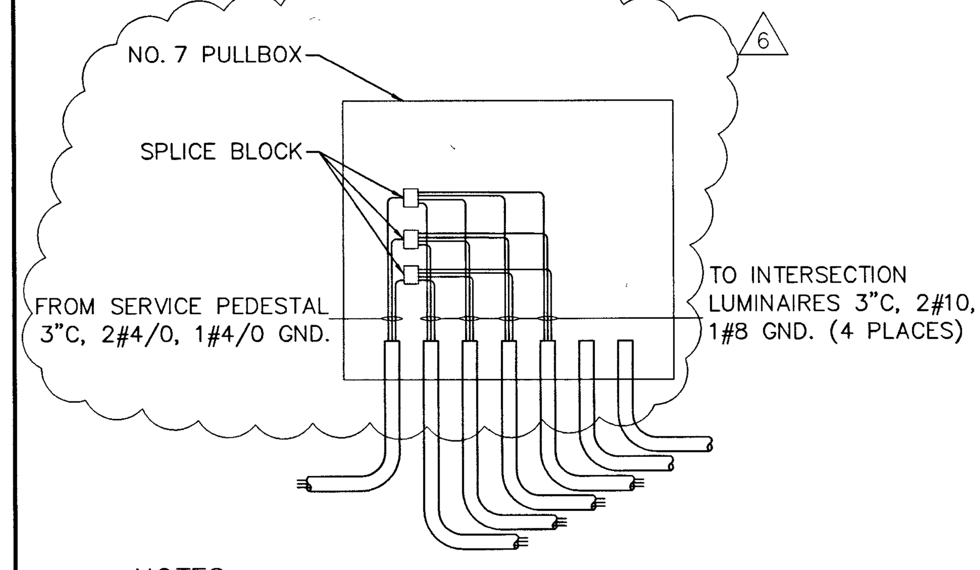
LOCATION

LYING WITHIN SECTIONS 34 TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

SUMMERLIN STREET CLASSIFICATION

SKY VISTA DRIVE: NEIGHBORHOOD ARTERIAL WITH BIKE LANES

SUNCREEK ROAD: NEIGHBORHOOD COLLECTOR LEVEL 1 WITH SHARED BIKE LANES



NOTES:

1. ALL CONDUCTORS SHALL BE STRANDED 600V, 194 DEG. F., THW-2 OR XHHW-2 INSULATED COPPER.

NO. 7 PULLBOX FOR INTERSECTION LIGHTING (1/48)

NOT TO SCALE

ELECTRICAL SERVICE NOTES

SP4: EXISTING 200 AMP SERVICE PEDESTAL. REFER TO SUMMERLIN VILLAGE 24 UNIT 1 IMPROVEMENTS FOR ADDITIONAL INFORMATION INCLUDING EXISTING CONNECTED LOADS.

SP5: EXISTING 200 AMP SERVICE PEDESTAL. REFER TO SUMMERLIN VILLAGE 23A UNIT 1 IMPROVEMENTS AND SUMMERLIN VILLAGE 23A/24 SKY VISTA DRIVE IMPROVEMENTS FOR ADDITIONAL INFORMATION INCLUDING EXISTING CONNECTED LOADS.

SP1 AND SP3: 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTALS. FEEDERS FROM NV ENERGY POINTS OF CONNECTION TO BE 2"C, 2#3/0 THW, 1#3/0 WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTALS SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMERS.

THE FOLLOWING SHALL BE INCLUDED IN EACH SERVICE PEDESTAL:

(2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS,
(2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
(2) TEST SWITCHES (ONE FOR EACH CONTACTOR),

PHOTOELECTRIC CONTROL,
(1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.

CONTRACTOR TO PROVIDE (2) 2" CONDUITS FROM EACH SERVICE PEDESTAL TO FIRST STREET LIGHTING PULLBOX. SERVICE PEDESTALS SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 331, 332.S2, 335.S2, AND 730.

GENERAL ELECTRICAL NOTES

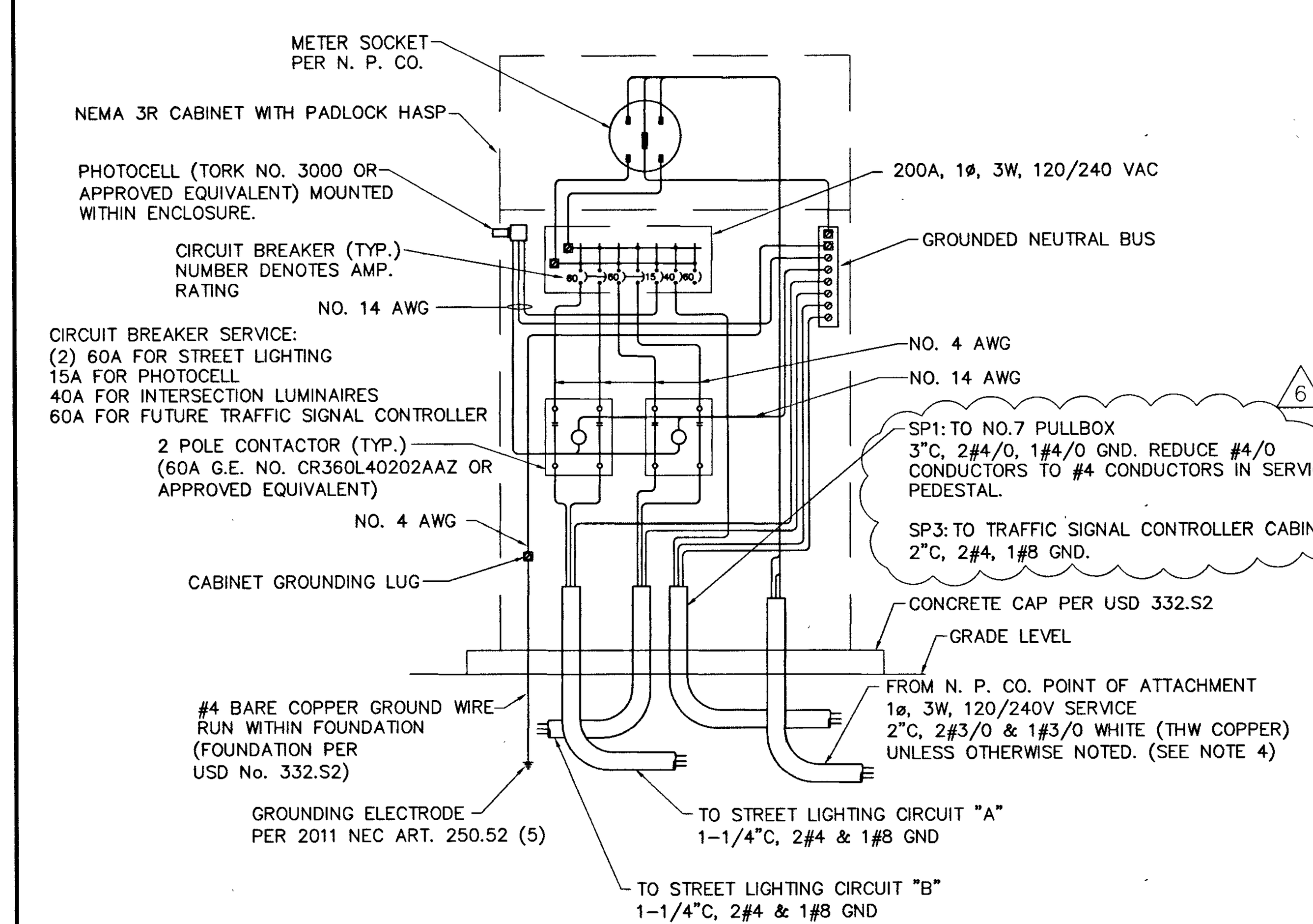
1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT), SCHEDULE 40 PVC AND SHALL BE INSTALLED PER USD 404.1419. ABOVE GRADE CONDUIT SHALL BE TYPE RMC (RIGID METALLIC CONDUIT). ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULL STRING AND 1#8 CONDUCTOR FOR LOCATING PURPOSES.

2. ALL CONDUCTORS SHALL BE STRANDED, 600-VOLT, TYPE THW INSULATED COPPER.

3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.

ELECTRICAL CONSTRUCTION NOTES

1E EXISTING NVE TRANSFORMER (4)
2E PROPOSED NVE TRANSFORMER
3E EXISTING SP4. REFER TO ELECTRICAL SERVICE NOTES
4E EXISTING SP5. REFER TO ELECTRICAL SERVICE NOTES
5E PROPOSED SP1. REFER TO ELECTRICAL SERVICE NOTES & DETAIL 2 SHEET 48 (4)
6E PROPOSED SP3. REFER TO ELECTRICAL SERVICE NOTES & DETAIL 2 SHEET 48
7E PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET REFER TO DETAIL 1 SHEET 48
8E EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
9E CONNECT TO EXISTING CONDUIT STUB
10E STUB OUT AND CAP
11E PROPOSED TYPE 2B SINGLE LUMINAIRE PER SSD E-1
11AE PROPOSED TYPE 2C SINGLE LUMINAIRE PER SSD E-1
12E PROPOSED TYPE 2B TWIN LUMINAIRE PER SSD E-1
13E PROPOSED TYPE 2A MOD 1 LUMINAIRE WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM PER SSD E-1
14E EXISTING STREET LIGHT
15E EXISTING NO. 3-1/2 PULLBOX
16E EXISTING NO. 5 PULLBOX
17E EXISTING NO. 7 PULLBOX
18E EXISTING TYPE 200 PULLBOX
19E PROPOSED NO. 3-1/2 PULLBOX PER USD 705 (6)
20E PROPOSED NO. 5 PULLBOX PER USD 706
21E PROPOSED NO. 7 PULLBOX PER USD 707
22E PROPOSED P30 PULLBOX PER USD 761
23E PROPOSED TYPE 200 PULLBOX PER USD 762
24E FUTURE TYPE 2B SINGLE LUMINAIRE PER SSD E-1
25E FUTURE CONDUIT OR PULLBOX (6)
26E PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
27E PROPOSED 1-1/4" CONDUIT ONLY [STREET LIGHTING] (6)
28E PROPOSED (5) 3" CONDUITS ONLY [FUTURE INTERSECTION LUMINAIRES AND TRAFFIC SIGNAL] AND 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT]
28AE PROPOSED (5) 3" CONDUIT [INTERSECTION LUMINAIRS AND TRAFFIC SIGNAL] INSTALL 2#4/0, 1#4/0 GND IN (1) OF (5) 3" CONDUITS
29E PROPOSED (2) 2" CONDUIT INSTALL 2#4, 1#8 GND [STREET LIGHTING] IN (1) OF (2) 2" CONDUITS
30E PROPOSED 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
31E PROPOSED 2" CONDUIT ONLY [FUTURE SCHOOL FLASHER]
32E PROPOSED 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
32AE PROPOSED (2) 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
33E PROPOSED 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
33AE PROPOSED (2) 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
34E PROPOSED 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT W/2' RADIUS BENDS]
35E EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
35AE EXISTING (2) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
36E EXISTING 1-1/4" CONDUIT ONLY [STREET LIGHTING]
37E EXISTING 2" CONDUIT ONLY [FUTURE SCHOOL FLASHER]
38E EXISTING 2" CONDUIT ONLY [POWER TO TRAFFIC SIGNAL CONTROLLER] INSTALL 2#4, 1#8 GND IN EXISTING CONDUIT [SP5]
39E EXISTING (4) 3" CONDUITS CONTAINING 2#10, 1#10 GND EACH [STREET LIGHTING] EXISTING (1) 3" EXISTING CONDUIT ONLY [FUTURE TRAFFIC SIGNAL] EXISTING (1) 4" CONDUIT ONLY [FUTURE TRAFFIC INTERCONNECT]
40E EXISTING 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT]
41E EXISTING TYPE 2A MOD 1 LUMINAIRE WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM PER SSD E-1
42E EXISTING 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
43E EXISTING 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
44E EXISTING 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
45E EXISTING 2" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
46E PROPOSED (2) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
47E EXISTING 1-1/4" CONDUIT ONLY ADD 2#4, 1#8 GND [STREET LIGHTING]
47AE EXISTING 1-1/4" CONDUIT ONLY [STREET LIGHTING] ADD (2) 2#4, (2) 1#8 GND
47BE EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING] ADD 2#4, 1#8 GND
48E CONNECT NEW 2#4, 1#8 GND TO EXISTING 2#4, 1#8 GND (CIRCUIT 5B) [STREET LIGHTING]



NOTES:

1. MANUFACTURER'S CATALOG NUMBERS ARE SHOWN TO ESTABLISH A DEGREE OF QUALITY AND PERFORMANCE, APPROVED AS EQUIVALENT ARE ACCEPTABLE.
2. ALL CONDUCTORS AND BUSSING TO BE COPPER.
3. INSTALL PER CLARK COUNTY AREA, UNIFORM STANDARD DRAWING NUMBER 331, 332.S2, 335.S2, 730.
4. TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER.
5. ALL CONDUCTORS SHALL BE STRANDED 600V, 194 DEG. F., THW-2 OR XHHW-2 INSULATED COPPER.

[CLV] 200A PAD MOUNTED SERVICE POINT FOR TRAFFIC SIGNAL AND STREET LIGHTING (2/48)

NOT TO SCALE

LEGEND:

STREET LIGHTING CONDUIT: PROPOSED / EXISTING / FUTURE
TRAFFIC SIGNAL CONDUIT: PROPOSED / EXISTING / FUTURE
INTERCONNECT CONDUIT: PROPOSED / EXISTING / FUTURE
SCHOOL FLASHER CONDUIT: PROPOSED / EXISTING / FUTURE
(N) SERVICE PEDESTAL DESIGNATION
CIRCUIT DESIGNATION (NX): N = SERVICE PEDESTAL, X = CIRCUIT

STREET LIGHT: PROPOSED / EXISTING / FUTURE
STREET LIGHT WITH TRAFFIC SIGNAL: PROPOSED / EXISTING / FUTURE
#3-1/2 PULLBOX, MARKED "STREET LIGHTING", UNLESS OTHERWISE NOTED: PROPOSED / EXISTING / FUTURE
#5 PULLBOX, MARKED "TRAFFIC SIGNAL", UNLESS OTHERWISE NOTED: PROPOSED / EXISTING / FUTURE
#7 PULLBOX, MARKED "TRAFFIC SIGNAL", UNLESS OTHERWISE NOTED: PROPOSED / EXISTING / FUTURE
SERVICE PEDESTAL: PROPOSED / EXISTING / FUTURE
(4) NVE TRANSFORMER: PROPOSED / EXISTING / FUTURE
TRAFFIC SIGNAL CONTROLLER: PROPOSED / EXISTING / FUTURE

SERVICE PEDESTAL CIRCUIT CAPACITY VERIFICATION

CIRCUIT NAME:	SP1 (A)		SP1 (C)		SP3 (A)		SP3 (B)		SP4 (A)		SP4 (B)		SP5 (B)	
CIRCUIT TYPE:	STREET LIGHTING (PROPOSED)		INTERSECTION STREET LIGHTING (PROPOSED)		STREET LIGHTING (PROPOSED)		STREET LIGHTING (PROPOSED)		STREET LIGHTING (EXISTING)		STREET LIGHTING (EXISTING)		STREET LIGHTING (EXISTING)	
VOLTAGE:	240		240		240		240		240		240		240	
CIRCUIT CAPACITY:	60		60		60		60		60		60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48		48		48		48		48		48	
EXISTING CIRCUIT LOAD AMPS =	0.00		0.00		0.00		0.00		0.00		9.00		1.00	
	PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS
100 WATT SINGLE LUMINAIRES AT 240V = 0.50 AMPS	0	0.00	0	0	0	0.00	0	0.00	0	0.00	0	0	3	1.50
150 WATT SINGLE LUMINAIRES AT 240V = 0.75 AMPS	6	4.50	0	0.00	6	4.50	11	8.25	1	0.75	1	0.75	0	0.00
150 WATT TWIN LUMINAIRES AT 240V = 1.50 AMPS	7	10.50	~~0~~	~~0.00~~	1	1.50	1	1.50	5	7.50	2	3.00	10	15.00
400 WATT SINGLE LUMINAIRES AT 120V = 4.00 AMPS	0	0.00	3	12.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL PROPOSED LOAD AMPS =	15.00		12.00		6.00		9.75		8.25		3.75		16.50	
EXISTING PLUS PROPOSED LOAD AMPS =	15.00		12.00		6.00		9.75		8.25		12.75		17.50	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =	33.00		36.00		42.00		38.25		39.75		35.25		30.50	
	FUTURE		FUTURE		FUTURE		FUTURE		FUTURE		FUTURE		FUTURE	
FUTURE LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS
100 WATT SINGLE LUMINAIRES AT 240V = 0.50 AMPS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
150 WATT SINGLE LUMINAIRES AT 240V = 0.75 AMPS	0	0.00	0	0.00	0	0.00	3	2.25	0	0.00	1	0.75	0	0.00
150 WATT TWIN LUMINAIRES AT 240V = 1.50 AMPS	0	0.00	~~0~~	~~0.00~~	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
400 WATT SINGLE LUMINAIRES AT 120V = 4.00 AMPS	0	0.00	1	4.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL ~~FUTURE LOAD AMPS~~ =	0.00		0.00		0.00		2.25		0.00		0.75		0.00	
EXISTING PLUS PROPOSED PLUS FUTURE LOAD AMPS =	15.00		16.00		6.00		12.0		8.25		13.50		17.50	
FUTURE REMAINING AVAILABLE LOAD AMPS: MAX. - EX. - PR. - FUT. =	33.00		32.00		42.00		36.00		39.75		34.50		30.50	

PROFESSIONAL ENGINEER - STATE OF NEVADA, JOHN T. BROWN, Exp. 12/31/2016, ELECTRICAL, No. 16033
DATE: 4/6/16
FOR ELECTRICAL COMPONENTS ONLY

Call before you Dig. Avoid cutting underground utility lines. It's costly. Call 811 OR 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

PROFESSIONAL ENGINEER - STATE OF NEVADA, JOSHUA L. JOHNSON, CIVIL, No. 15789
DATE: 04/05/2016

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP
6	3/14/16	REVISED DETAILS, VERIFICATION TABLE, AND NOTES	4/7/2016			
4	01/06/16	ADDED METER/RPPA OFF FH SKY VISTA DR, REVISED SP & ELEC NOTES				
3	10/27/15	ADDED SWG SHEETS TO SET, CORRECTED 4" AVAR LINE AND ROADWAY				
		SECTION D, REVISED SEWER @ ALTA, REMOVED 8" WATER @ SUNCREEK				

PROJECT NO. 62024-221
DESIGN: GCW
DRAWN: GCW
CHECK: JLJ
PLOT DATE: 04-05-16
PLOT TIME: 15:05:31

G. C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BLVD · LAS VEGAS, NV 89146
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM
LAS VEGAS

F:\Projects\600\62024-221\DWG\Production\V24-221_48-EL0.dwg
Susan Gracia

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 23A/24 - SKY VISTA IMPROVEMENT PLANS
DESERT MOON DR TO ALTA DR INCLUDING SUNCREEK RD

STREET LIGHT NOTES AND DETAILS

DRAWING 48
48 OF 54 SHTS

SID NO. 812 PROJECT 6, 7, 9 AND 11
SID NO. 809 PROJECT 13 AND 810 PROJECT 8

H#: 57159 CLV#: 107V6423

gcw2436.dwg.070203.jev