

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). CONDUIT RISERS SHALL BE TYPE RMC WITH PVC COATING OR TAPE WRAP.
2. ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULLSTRING AND 1#8 FOR LOCATING PURPOSES.
3. ALL CONDUCTORS SHALL BE STRANDED, 600-VOLT, TYPE THW INSULATED COPPER.
4. 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.

VERIFICATION

CIRCUIT NAME	SPAD1(A)	SPAD1(B)	SPAD1(C)
CIRCUIT TYPE	STREET LIGHTING (PROPOSED)	STREET LIGHTING (PROPOSED)	INTERSECTION LIGHTING (PROPOSED)
VOLTAGE:	240	240	120
CIRCUIT CAPACITY:	60	60	40
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48	48	32
EXISTING CIRCUIT LOAD AMPS =	0.00	0.00	16.00
PROPOSED LOAD TO CIRCUIT:	PROPOSED	PROPOSED	PROPOSED
150 WATT SINGLE LUMINAIRES AT 240V = 0.75 AMPS	QTY. AMPS	QTY. AMPS	QTY. AMPS
150 WATT TWIN LUMINAIRES AT 240V = 1.50 AMPS	7 5.25	0 0.00	0 0.00
250 WATT SINGLE LUMINAIRES AT 240V = 1.25 AMPS	0 0.00	0 0.00	0 0.00
400 WATT SINGLE LUMINAIRES AT 120V = 4.00 AMPS	0 0.00	0 0.00	0 0.00
TOTAL PROPOSED LOAD AMPS =	15.75	0.00	16.00
EXISTING PLUS PROPOSED LOAD AMPS =	15.75	0.00	16.00
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =	32.25	48.00	16.00

LEGEND

STREET LIGHT CONDUIT	(N)	SERVICE PEDESTAL AND N.P.CO. TRANSFORMER
TRAFFIC SIGNAL INERCONNECT	(NX)	CIRCUIT DESIGNATION: (CONTAINED WITHIN BOUNDARY) N = SERVICE PEDESTAL X = CIRCUIT
TRAFFIC SIGNAL CONDUIT (SEE ELECTRICAL CONSTRUCTION NOTES)	(□)	#3-1/2 PULLBOX, MARKED "STREET LIGHTING" UNLESS OTHERWISE NOTED.
SCHOOL FLASHER CONDUIT (1) 2"C, 1#8 GND, THW.	(■)	#5 PULLBOX, MARKED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED.
TRAFFIC SIGNAL POLE WITH STREET LIGHT	(▨)	#7 PULLBOX, MARKED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED.
STREET LIGHT	(○)	TRAFFIC SIGNAL CONTROLLER
EXISTING STREET LIGHT	(⊗)	
FUTURE STREET LIGHT	(○)	
METERED SERVICE PEDESTAL, PHOTOCELL WILL BE MOUNTED WITHIN ENCLOSURE,	(■)	NEVADA POWER TRANSFORMER AND METERED SERVICE PEDESTAL, PHOTOCELL WILL BE MOUNTED WITHIN ENCLOSURE, AIM NORTH AWAY FROM LIGHTING SOURCES. (UNLESS OTHERWISE NOTED)

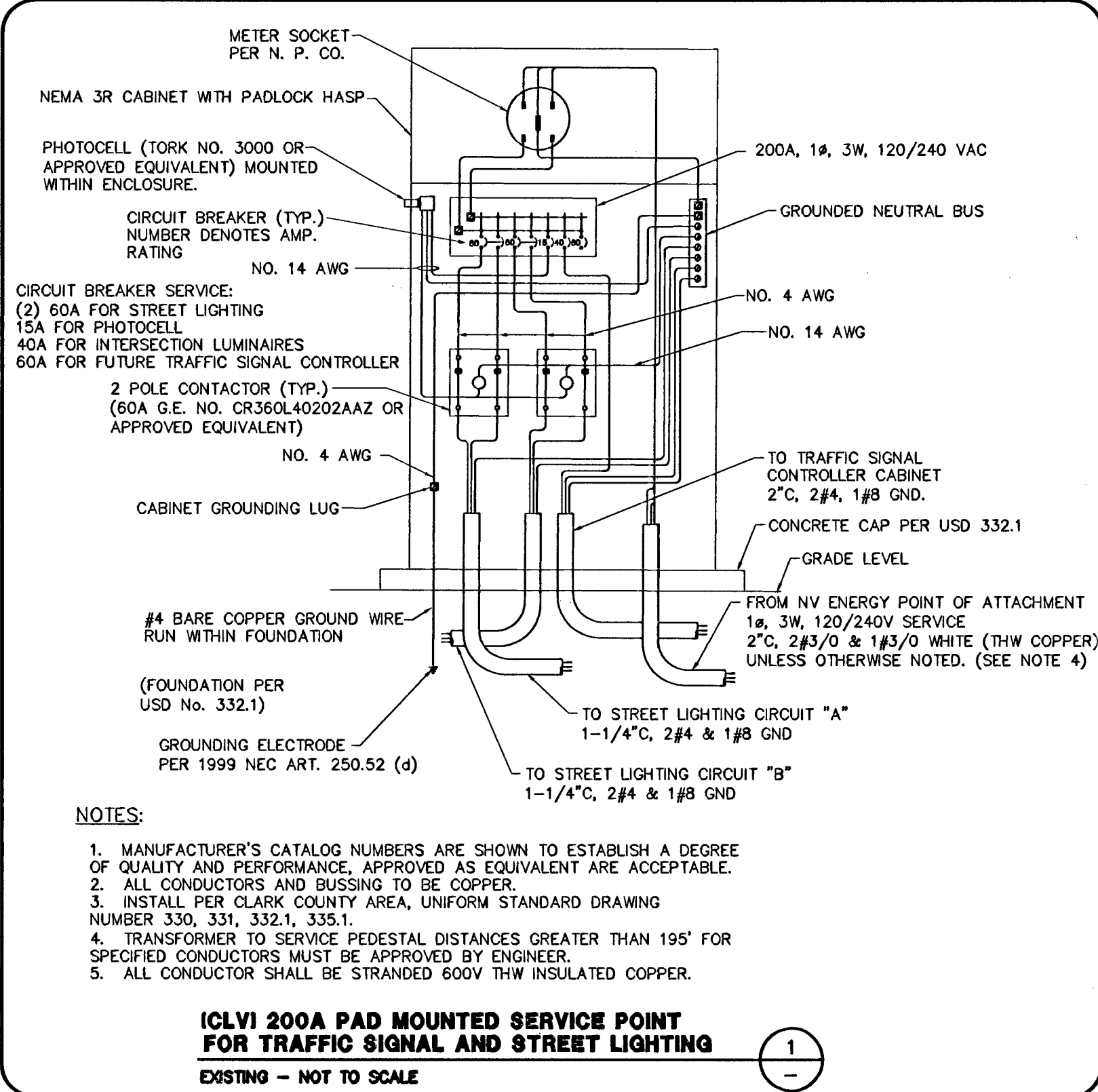
ELECTRICAL SERVICE NOTES

SPAD1: EXISTING 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. THE FOLLOWING SHALL BE INCLUDED IN THE 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,
- (1) 40 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR INTERSECTION LUMINAIRES,
- (1) 60 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR TRAFFIC SIGNAL CONTROLLER.

CONTRACTOR TO PROVIDE (2) 2" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX AND (1) 2" CONDUIT AS SHOWN FOR TRAFFIC SIGNAL CONTROLLER AND INTERSECTION LUMINAIRE BRANCH CIRCUITS. SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

CONNECT NEW STREET LIGHTING (CIRCUIT SPAD1-A) TO EXISTING 60A CIRCUIT BREAKER.



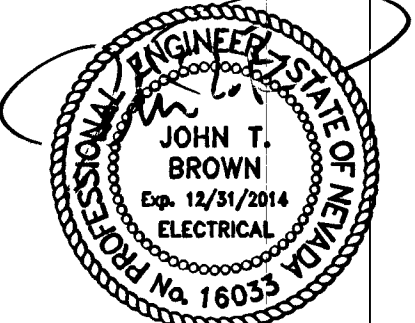
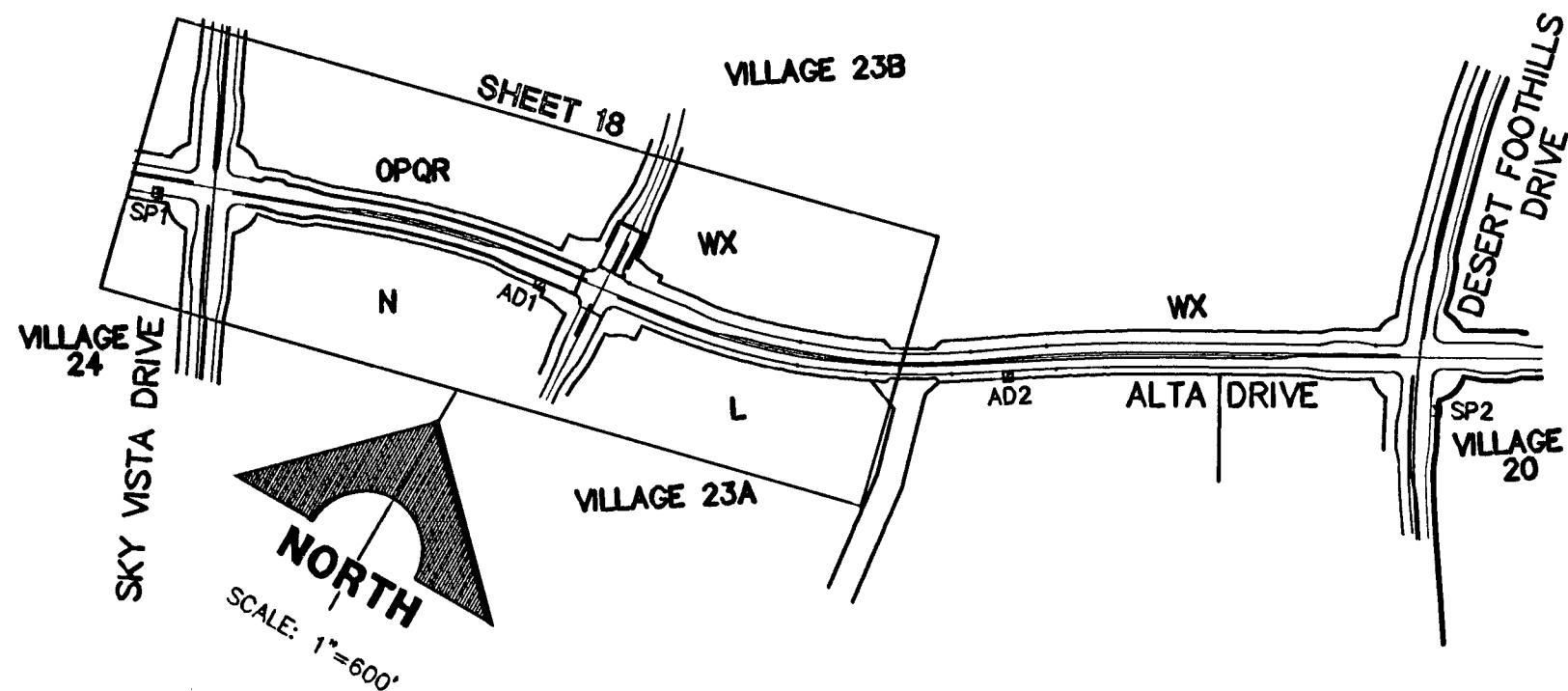
ELECTRICAL CONSTRUCTION NOTES

1. SP-AD1: EXISTING SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES. SEE DETAIL 1 ON THIS DRAWING.
2. SUMMERLIN TYPE 2B TWIN STREETLIGHT PER SIS E-1. (150W)
3. SUMMERLIN TYPE 2B SINGLE STREETLIGHT PER SIS E-1. (150W)
4. PROPOSED NO. 3-1/2 PULLBOX PER USD 326.
5. PROPOSED P30 PULLBOX PER USD 404.132.
6. PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING CONDUIT].
7. PROPOSED 1-1/4" CONDUIT ONLY W/ #8 TRACE.
8. PROPOSED 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2" RADIUS BENDS].
9. EXISTING 1-1/4" CONDUIT ONLY. ADD 2#4, 1#8 GND. STUB AND CAP 5' BEYOND EDGE OF CONSTRUCTION.
10. EXISTING 4" CONDUIT ONLY.
11. CONNECT TO EXISTING CONDUIT STUB.
12. EXISTING (2)-2" CONDUIT ONLY. ADD 2#4, 1#8 GND TO ONE CONDUIT.
13. EXISTING NO. 5 PULLBOX.
14. EXISTING TRAFFIC CONTROL CABINET.
15. EXISTING TYPE 200 PULLBOX.

STREET CLASSIFICATION

ALTA DRIVE	NEIGHBORHOOD ARTERIAL WITH SHARED BIKE LANES
FOX HILL DRIVE	NEIGHBORHOOD COLLECTOR (LEVEL 1) WITH SHARED BIKE LANES

PROJECT LOCATION / SHEET INDEX MAP



DATE: 10/3/2013

FOR ELECTRICAL COMPONENTS ONLY

CLV # 10245922-2

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 23A/23B ALTA DRIVE PHASE 2
STREET LIGHT, MASTER CONDUIT,
AND ELECTRICAL DETAILS

DRAWING

17

17 OF 18 SHEETS

JOB NO. 62023B-206